ARIZONA ACADEMIC STANDARDS
GRADE 1

CONTENTS

The Arts Standard 2006 – Grade 1

Comprehensive Health Education/Physical Activity Standards 1997 – Foundations (Grades 1-3)

Foreign and Native Language Standards 1997 – Foundations (Grades 1-3)

Reading Standard Articulated by Grade Level 2003 – Grade 1

Writing Standard Articulated by Grade Level 2004 – Grade 1

Language Arts Standards1996 – Foundations (Grades 1-3)
   Standard 3: Listening and Speaking
   Standard 4: Viewing and Presenting

Mathematics Standard Articulated by Grade Level 2008 – Grade 1

Science Standard Articulated by Grade Level 2004 – Grade 1

Social Studies Standard Articulated by Grade Level 2006 – Grade 1

Technology Standards 2000 – Foundations (Grades 1-3)

Workplace Skills Standards1997 – Foundations (Grades 1-3)

Additional information about the Arizona Academic Standards including glossaries of terms may be found at http://www.ade.az.gov/standards/contentstandards.asp.
Philosophy and Rationale for the Arts
The arts are essential in education for they provide students with the means to think, feel, and understand the world around them in ways unique and distinct from other academic disciplines. These skills have been recognized as essential to lifelong success both in and out of school by a variety of education and civic leaders, including the National Association of State Boards of Education, the Education Commission of the States, the Arts Education Partnership, and BusinessWeek.

Arts Education in Arizona
Arizona has recognized the importance of arts education for its students in a variety of ways, including:
- Requiring music and visual arts be taught in grades K-8
- Creating high quality certifications (endorsements) for teachers in the areas of dance, music, theatre and visual arts
- Requiring a fine arts high school credit for admission to our state’s universities
- Adopting Academic Standards in the Arts, with rigorous, sequential guidelines for creating quality arts education for Arizona’s students.

Arts Standards Articulation for First Grade
- The Arts Standards are divided into four discipline areas: dance, music, theatre and visual arts.
- The Music Standard is articulated for general music by grade level for Kindergarten – 8th grade.
- The remaining Standards (Dance, Theatre, Visual Arts) are articulated by skill level, reflecting the variety of ways in which the arts are taught in Arizona schools. Included in this First Grade packet are the Beginning Skill Level Performance Objectives for Dance, Theatre and Visual Arts. If your students are more advanced, or if you would like to see how these skill articulated standards build on one another, the Department encourages you to view the standards in their entirety at http://www.ade.az.gov/standards/contentstandards.asp.
- All Four Arts Standards are organized under three strands: Create, Relate and Evaluate. Create performance objectives refer to the creation and performance within the discipline. Relate performance objectives refer to the social/historical/interdisciplinary nature of the discipline. Evaluate performance objectives refer to the critique and criticism aspects of the discipline.

Additional Resources for Arts Education
Additional resources on arts education can be accessed at http://www.ade.az.gov/asd/arts/ or by calling the Department’s Arts Education Specialist at 602-364-1534.
# ARIZONA ACADEMIC STANDARDS IN THE ARTS
## ARTICULATED FOR FIRST GRADE

### BEGINNING DANCE

#### Strand 1 - Create

<table>
<thead>
<tr>
<th>Concept 1: Body</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives</td>
<td></td>
</tr>
<tr>
<td><strong>Healthy Practices</strong></td>
<td>PO 101 Identify and apply healthy and safe dance practices (e.g. alignment, strength, endurance, proper nutrition, warming up the body, somatic practices).</td>
</tr>
<tr>
<td><strong>Anatomy</strong></td>
<td>PO 102 Perform isolated and coordinated dance movement for the head, neck, joints, and body parts of the torso and limbs.</td>
</tr>
<tr>
<td><strong>Dynamic Alignment</strong></td>
<td>PO 103 Identify and demonstrate the elements of dynamic alignment through basic movement patterns.</td>
</tr>
<tr>
<td><strong>Fundamental Movement Patterns</strong></td>
<td>PO 104 Identify and demonstrate basic fundamental movement patterns including breath, head/tail, core/distal, body half, upper/lower, front/back and cross/lateral</td>
</tr>
<tr>
<td><strong>Body Skills</strong></td>
<td>PO 105 Identify and demonstrate basic body skills including balance, strength, flexibility, coordination, endurance and agility.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Movement Skills</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives</td>
<td></td>
</tr>
<tr>
<td><strong>Axial/Non-locomotor</strong></td>
<td>PO 101 Identify and perform basic axial/non-locomotor movements (e.g. bending, twisting, reaching turning).</td>
</tr>
<tr>
<td><strong>Locomotor</strong></td>
<td>PO 102 Identify and perform basic locomotor movements (e.g. walk, run, hop, skip, jump, slide, gallop, leap, crawl, roll).</td>
</tr>
<tr>
<td><strong>Axial and locomotor combinations</strong></td>
<td>PO 103 Perform basic movement combinations that utilize both axial and locomotor movements.</td>
</tr>
<tr>
<td><strong>Articulation of movement skills</strong></td>
<td>PO 104 Identify and use breath support, initiation of movement, connectivity, and transition from one movement to another.</td>
</tr>
<tr>
<td>Concept 3: Elements of Dance</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------</td>
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</tr>
<tr>
<td>Beginning Objectives</td>
<td></td>
</tr>
<tr>
<td><strong>Time: Tempo</strong></td>
<td></td>
</tr>
<tr>
<td>See also “Relating Dance and Music”</td>
<td></td>
</tr>
<tr>
<td>PO 101</td>
<td></td>
</tr>
<tr>
<td>Demonstrate moving to a steady beat in different tempos.</td>
<td></td>
</tr>
<tr>
<td><strong>Time: Meter</strong></td>
<td></td>
</tr>
<tr>
<td>PO 102</td>
<td></td>
</tr>
<tr>
<td>Demonstrate the ability to organize beats into groups and move in time with the beats. (e.g. duple and triple time).</td>
<td></td>
</tr>
<tr>
<td><strong>Time: Rhythm</strong></td>
<td></td>
</tr>
<tr>
<td>PO 103</td>
<td></td>
</tr>
<tr>
<td>Demonstrate moving in relation to and coordination with changes in rhythms and meters.</td>
<td></td>
</tr>
<tr>
<td><strong>Space: Direction, Facing, Pathway</strong></td>
<td></td>
</tr>
<tr>
<td>PO 104</td>
<td></td>
</tr>
<tr>
<td>Identify and demonstrate movement in different directions (forward, back side).</td>
<td></td>
</tr>
<tr>
<td><strong>Space: Level</strong></td>
<td></td>
</tr>
<tr>
<td>PO 105</td>
<td></td>
</tr>
<tr>
<td>Identify and demonstrate shapes at low, middle and high level.</td>
<td></td>
</tr>
<tr>
<td><strong>Space: Shapes</strong></td>
<td></td>
</tr>
<tr>
<td>PO 106</td>
<td></td>
</tr>
<tr>
<td>Demonstrate and create a variety of solo shapes exploring the possibility of symmetrical, asymmetrical, twisted, curved, angular, flat etc.</td>
<td></td>
</tr>
<tr>
<td><strong>Space: Size and Range</strong></td>
<td></td>
</tr>
<tr>
<td>PO 107</td>
<td></td>
</tr>
<tr>
<td>Explore the possibilities of size and range in relation to shape and movement.</td>
<td></td>
</tr>
<tr>
<td><strong>Space: Focus and Intent</strong></td>
<td></td>
</tr>
<tr>
<td>PO 108</td>
<td></td>
</tr>
<tr>
<td>Discuss and identify various points of focus (e.g. inner/outer, near/far, single/multi)</td>
<td></td>
</tr>
<tr>
<td><strong>Energy: Movement Qualities</strong></td>
<td></td>
</tr>
<tr>
<td>PO 109</td>
<td></td>
</tr>
<tr>
<td>Use appropriate terminology to identify and demonstrate the 6 qualities of movement (e.g. swing, suspend, sustained, percussive, collapse, vibratory)</td>
<td></td>
</tr>
<tr>
<td><strong>Energy: Effort</strong></td>
<td></td>
</tr>
<tr>
<td>PO 110</td>
<td></td>
</tr>
<tr>
<td>Use appropriate terminology to identify and demonstrate the Laban effort principles (e.g. bound/free, sudden/sustained, direct/indirect, strong/light</td>
<td></td>
</tr>
</tbody>
</table>
# Concept 4: Improvisation/Choreography

**Beginning Objectives**

<table>
<thead>
<tr>
<th>Improvisational Strategies</th>
<th>PO 101 Identify and apply improvisational strategies (e.g. leading/following, shadowing/mirroring, verbal cues, emotional response).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using the Elements of Dance to Communicate</td>
<td>PO 102 Discuss and explore how the elements of dance can be used to communicate meaning.</td>
</tr>
<tr>
<td>Ideas and Themes</td>
<td>PO 103 Discuss and explore ideas and themes used to create dances (e.g. literal/abstract, emotions, stories, social themes, nature, text).</td>
</tr>
<tr>
<td>Choreographic Processes</td>
<td>PO 104 Identify the choreographic process used to create dances.</td>
</tr>
<tr>
<td>Choreographic Forms</td>
<td>PO 105 Identify various choreographic forms (e.g. Narrative, ABA, Suite, Recurring Theme, Abstract, Broken Form, Chance).</td>
</tr>
<tr>
<td>Choreographic Principles</td>
<td>PO 106 Identify the choreographic principles used in dance (e.g. contrast, unity, balance).</td>
</tr>
<tr>
<td>Technology</td>
<td>PO 107 Discuss and identify the ways to document dance (e.g. photography, video, writing, drawing, and computer programs).</td>
</tr>
<tr>
<td></td>
<td>PO 108 Use technology as a motivator for improvisation or choreography.</td>
</tr>
</tbody>
</table>

# Concept 5: Performance Values

**Beginning Objectives**

<table>
<thead>
<tr>
<th>Focus and Concentration</th>
<th>PO 101 Identify and demonstrate concentration and focus in dance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kinesthetic and Spatial Awareness</td>
<td>PO 102 Discuss and explore the concept of personal and general space.</td>
</tr>
<tr>
<td>Performance Qualities</td>
<td>PO 103 Identify and perform dance with performance qualities of focus, performance energy and facial expression.</td>
</tr>
</tbody>
</table>

# Concept 6: Production Design

**Beginning Objectives**

<table>
<thead>
<tr>
<th>Production terms, crew, elements</th>
<th>PO 101 Define production terminology and appropriate performance etiquette.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing and budget</td>
<td>PO 102 Identify marketing tools and sequence for a dance production.</td>
</tr>
<tr>
<td>Technology</td>
<td>PO 103 Identify the ways that technology can be used in production.</td>
</tr>
</tbody>
</table>
ARIZONA ACADEMIC STANDARDS IN THE ARTS
ARTICULATED FOR FIRST GRADE

Strand 2 - Relate

<table>
<thead>
<tr>
<th>Concept 1: Dance Forms/History</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives</td>
</tr>
<tr>
<td>History and Development of Dance Forms</td>
</tr>
<tr>
<td>Identify the origins of various dance forms and the individuals who helped develop them (e.g. ballet, modern, jazz, tap, hip-hop).</td>
</tr>
<tr>
<td>Technique and Theory of Various Dance Forms</td>
</tr>
<tr>
<td>Identify and discuss the theoretical and technical differences of the various dance forms.</td>
</tr>
<tr>
<td>Technology</td>
</tr>
<tr>
<td>Identify and discuss the ways in which technology is used in dance.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Social and Cultural Influences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives</td>
</tr>
<tr>
<td>Cultural Dances</td>
</tr>
<tr>
<td>Identify, practice, perform, and respond to dances from a variety of cultures, heritages and environments.</td>
</tr>
<tr>
<td>Meaning of Cultural Dances</td>
</tr>
<tr>
<td>Identify the meaning, purpose and the roles people play in various social/cultural and folk dances.</td>
</tr>
<tr>
<td>Contemporary Cultural Dances</td>
</tr>
<tr>
<td>Identify current dance styles in society and/or various cultures (see social/cultural dances).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 3: Dance and Literacy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives</td>
</tr>
<tr>
<td>Using text to create movement</td>
</tr>
<tr>
<td>Use movement to express images, ideas, situations, and feelings from text (e.g. books, poetry, original writing, articles).</td>
</tr>
<tr>
<td>Using text to describe and understand movement</td>
</tr>
<tr>
<td>Use words to express images, ideas and feelings that are danced.</td>
</tr>
</tbody>
</table>

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## ARIZONA ACADEMIC STANDARDS IN THE ARTS
### ARTICULATED FOR FIRST GRADE

### Strand 2 – Relate (continued)

<table>
<thead>
<tr>
<th>Concept 4: Dance and other disciplines</th>
<th>Beginning Objectives</th>
</tr>
</thead>
</table>
| **Using movement with other disciplines** | PO 101  
Use movement to express ideas, concepts, feelings and images (e.g. numbers, patterns, symbols, sounds, textures, animals) found in other disciplines. |
| **Integrating dance and other art forms** | PO 102  
Respond to movement through a different art medium (e.g. draw a picture, write a poem, sing a song). |
| **Careers** | PO 103  
Identify possible career opportunities in dance. |

<table>
<thead>
<tr>
<th>Concept 5: Dance and Music</th>
<th>Beginning Objectives</th>
</tr>
</thead>
</table>
| **Elements of music** | PO 101  
Identify and explore (e.g. discussion, body percussion, locomotors, other body movements) the tempo and meter of various music examples. |
| **Rhythmic Patterns/Variations** | PO 102  
Explore and respond physically to the ways in which movement can be used to mirror and/or contrast sounds, rhythms, and tempos. |
| **Technology** | PO 103  
Explore the technology available for creating sound for dance. |
# Strand 3 - Evaluate

## Concept 1: Understanding Dance
### Beginning Objectives

<table>
<thead>
<tr>
<th>Dance Terminology</th>
<th>PO 101</th>
<th>After observing a brief movement study, use dance terminology to identify the movements and/or the elements of dance being used.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production Elements</td>
<td>PO 102</td>
<td>After observing a dance, identify the production elements being used (e.g. lighting, sound, costumes, props, scenery).</td>
</tr>
<tr>
<td>Communicating Meaning</td>
<td>PO 103</td>
<td>Discuss how movement can be used to communicate main ideas, themes or feelings.</td>
</tr>
<tr>
<td>Evaluation Criteria</td>
<td>PO 104</td>
<td>Identify the criteria used to evaluate dance performance and technique (e.g. performance values, choreographic principles, elements of movement).</td>
</tr>
<tr>
<td>Personal Interpretation</td>
<td>PO 105</td>
<td>Identify your personal reaction to a dance through discussion, writing, movement or art making.</td>
</tr>
<tr>
<td>Technology</td>
<td>PO 106</td>
<td>Use technology to identify and discuss technical training and performance aspects in dance.</td>
</tr>
</tbody>
</table>

## Concept 2: Professionalism
### Beginning Objectives

| Classroom, rehearsal and performance behaviors | PO 101 | Identify and demonstrate appropriate classroom, rehearsal and performance behaviors (e.g. be attentive and respond appropriately to vocal, musical or observed cues, be on time, dress appropriately, work cooperatively, be respectful to self and others). |
| Audience Etiquette | PO 102 | Identify and demonstrate appropriate audience behavior (e.g. watch attentively, remain quiet, appropriate applause). |
| Portfolio collection and maintenance | PO 103 | At regular intervals, record and discuss movement skills acquired, choreography and performances. Maintain records for future use. |
# ARIZONA ACADEMIC STANDARDS IN THE ARTS  
# ARTICULATED FOR FIRST GRADE

## GRADE 1 MUSIC

### Strand 1 – Create

<table>
<thead>
<tr>
<th>Concept 1: Singing, alone and with others, music from various genres and diverse cultures.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Singing on <strong>pitch</strong> loud/soft, fast/slow, high/low.</td>
</tr>
<tr>
<td>PO 2. Following a steady <strong>beat</strong> while singing.</td>
</tr>
<tr>
<td>PO 3. Echo singing using syllable names.</td>
</tr>
<tr>
<td>PO 4. Responding properly to basic conducting <strong>cues</strong>. (e.g., start/stop).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Playing instruments, alone and with others, music from various genres and diverse cultures.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Maintaining a steady <strong>beat</strong> with a partner.</td>
</tr>
<tr>
<td>PO 2. Playing sounds that are loud/soft, fast/slow, high/low.</td>
</tr>
<tr>
<td>PO 4. Responding properly to basic conducting <strong>cues</strong>. (e.g., stop/start).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 3: Improvising rhythms, melodies, variations, and accompaniments</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. <strong>Improvising</strong> an answer to a teacher-performed statement (to a steady <strong>beat</strong>).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 4: Composing and arranging music.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Composing and notating short pieces using non-standard musical <strong>notation</strong>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 5: Reading and notating music.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Recognizing <strong>melodic</strong> movement as up and down.</td>
</tr>
<tr>
<td>PO 2. Identifying quarter and eighth notes and quarter rests (e.g., Ta, Ti Ti).</td>
</tr>
<tr>
<td>PO 4. Demonstrating melodic line and texture through non-standard musical notation.</td>
</tr>
</tbody>
</table>

### Strand 2 – Relate

<table>
<thead>
<tr>
<th>Concept 1: Understanding the relationships among music, the arts, and other disciplines outside the arts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Using body movement to show variations in <strong>rhythm</strong>, <strong>pitch</strong> or <strong>tempo</strong>.</td>
</tr>
<tr>
<td>PO 3. Recognizing composers’ motivations for creating music</td>
</tr>
<tr>
<td>PO 4. Exploring and analyzing the relationship of music to language arts, visual arts, <strong>literature</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Understanding music in relation to history and culture.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Recognizing various uses of music in daily experiences (e.g., game songs, marches, dance music, work songs).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Identifying a song or other piece of music that is important to their family.</td>
</tr>
<tr>
<td>PO 2. Explaining music preferences (I like it because…).</td>
</tr>
</tbody>
</table>

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ARIZONA ACADEMIC STANDARDS IN THE ARTS
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Strand 3 – Evaluate

Concept 1:
Listening to, analyzing, and describing music.

PO 1. Identifying \textit{melodic} shape/\textit{pitch} direction.
PO 2. Identifying a variety of band, orchestra, and classroom instruments.
PO 4. Demonstrating various moods heard in music through facial expression, body posture and/or movement.
PO 3. Recognizing patterns (e.g. \textit{rhythmic}, \textit{melodic}, dynamic, instrumental, \textit{tempo})

Concept 2:
Evaluating music and music performances.

PO 1. Expressing personal reactions to a music performance through words or drawings (I like it because…).
PO 2. \textit{Listening attentively while others perform and showing appropriate audience behavior for the context and style of the music performed.}

BEGINNING THEATRE

Strand 1 – Create

Concept 1: Collaboration
Beginning Objectives

PO 101. Demonstrate respect for others’ opinions by respectfully listening while ideas are articulated.
PO 102. Cooperate in the dramatic process.
PO 103. Demonstrate the ability to collaborate while coming to consensus in the dramatic process.
PO 104. Follow established theatre safety rules.

Concept 2: Acting
Beginning Objectives

PO 101. Imagine and describe \textit{characters}, their relationships, what they want and why (e.g., through variations of \textit{movement} and \textit{gesture}, vocal \textit{pitch}, \textit{volume}, and \textit{tempo}).
PO 102. Sustain a \textit{scene} using appropriate language or \textit{movement} with the teacher \textit{role-playing or giving clues} (e.g., from literature or students’ personal experiences).
PO 104. Describe or illustrate recalled sensory experiences.
PO 105. Work cooperatively and follow established safety rules.

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### Concept 3: Theatre Technology and Design
Beginning Objectives

<table>
<thead>
<tr>
<th>PO 101</th>
<th>Describe and/or document the <strong>setting/environment</strong> of a story to be dramatized (e.g., through words, drawings, technical elements).</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 102</td>
<td>Establish a playing <strong>space</strong> and an <strong>audience space</strong>.</td>
</tr>
<tr>
<td>PO 103</td>
<td>Illustrate the use of line, shape, texture, color, <strong>space</strong>, and <strong>balance</strong> to represent the <strong>environment</strong> of a story.</td>
</tr>
<tr>
<td>PO 104</td>
<td>Select/document/arrange materials (e.g., <strong>props</strong>, furniture, <strong>costumes</strong>, <strong>sound</strong>) to create the <strong>setting/environment</strong> of the story to be dramatized.</td>
</tr>
<tr>
<td>PO 108</td>
<td>Use available art materials, tools, and resources to convey the characters through costumes, accessories, and make-up designs for a scene or production.</td>
</tr>
</tbody>
</table>

### Concept 4: Playwriting
Beginning Objectives

<table>
<thead>
<tr>
<th>PO 101</th>
<th>Identify various sources (e.g., books, family stories, nature, imagination, paintings, poetry) for theatrical work.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 102</td>
<td>Retell a story including its <strong>theme</strong>, <strong>setting</strong>, storyline, <strong>plot</strong>, physical descriptions of the <strong>characters</strong>, and <strong>theme</strong>.</td>
</tr>
<tr>
<td>PO 103</td>
<td>Improvise by imitating life experiences, knowledge of literature, social issues, and/or historical situations, and create imaginary <strong>scenes</strong> that include <strong>characters</strong>, <strong>setting</strong>, and storyline.</td>
</tr>
<tr>
<td>PO 104</td>
<td>Create original, brief stories through <strong>improvisation</strong> that include a storyline and <strong>characters</strong>.</td>
</tr>
<tr>
<td>PO 105</td>
<td>Describe or illustrate recalled sensory experiences to create <strong>characters</strong> and <strong>plot</strong>.</td>
</tr>
</tbody>
</table>

### Concept 5: Directing
Beginning Objectives

<table>
<thead>
<tr>
<th>PO 101</th>
<th>Lead peers in <strong>warm-ups</strong> and theatre games.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 102</td>
<td>Demonstrate leadership skills in small group work.</td>
</tr>
<tr>
<td>PO 103</td>
<td>Lead small groups in planning a <strong>scene</strong> and rehearsing the <strong>scene</strong> for in-class <strong>performance</strong>.</td>
</tr>
<tr>
<td>PO 106</td>
<td>Conduct exercises for actors in sensory recall.</td>
</tr>
<tr>
<td>PO 107</td>
<td>Develop an understanding and discuss the role of the director in the production process.</td>
</tr>
</tbody>
</table>

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# ARIZONA ACADEMIC STANDARDS IN THE ARTS
## ARTICULATED FOR FIRST GRADE

### Strand 2 – Relate

<table>
<thead>
<tr>
<th>Concept 1: Collaboration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives</strong></td>
</tr>
<tr>
<td>PO 101. Describe, illustrate and/or implement how the use of collaboration affects daily life and different environments.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Acting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives</strong></td>
</tr>
<tr>
<td>PO 101. Describe how the characters in a situation might be similar to or different from a real life experience.</td>
</tr>
<tr>
<td>PO 102. Describe how place and time affect characters and story in class <em>improvisations</em>, <em>scripts</em>, and productions of theatre and/or other media.</td>
</tr>
<tr>
<td>PO 103. Identify current and historical periods and cultures (e.g., western/eastern traditions) in dramatic <em>scenes, scripts</em>, and informal and <em>formal productions</em>.</td>
</tr>
<tr>
<td>PO 104. Demonstrate how interrelated conditions (time, place, other characters, and the situation) influence the characters and stories in informal productions of theatre, film/video, and <em>electronic media</em>.</td>
</tr>
<tr>
<td>PO 105. Infer a character’s motivations and emotions and predict future action.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Concept 3: Theatre Technology and Design</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives</strong></td>
</tr>
<tr>
<td>PO 101. Compare and contrast the historic setting, culture, and geography of a story, and how they influence and affect the visual/aural representation of it in a classroom, on <em>stage</em>, or in media.</td>
</tr>
<tr>
<td>PO 102. Identify and explain the historical and cultural influences on the visual/aural elements from a variety of works (e.g., fairy tales, books, <em>plays</em>) for dramatizations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 4: Playwriting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives</strong></td>
</tr>
<tr>
<td>PO 101. Read and analyze stories and short <em>plays</em> from a variety of cultures and historical periods to identify their essential playwriting elements (e.g., storyline, <em>conflict, characters, theme</em>).</td>
</tr>
<tr>
<td>PO 102. Determine how place, time, and social and cultural conditions affect characters and the storyline in class <em>improvisations, scripts</em>, and productions of theatre and/or other media.</td>
</tr>
<tr>
<td>PO 103. Describe how a character’s <em>motivation</em> and emotions can predict future <em>action</em> or the resolution to a <em>conflict</em> in the story.</td>
</tr>
<tr>
<td>PO 104. Discuss story <em>themes, plot, characters, dialogue</em>, and <em>actions</em> and how they compare/contrast to real life situations.</td>
</tr>
<tr>
<td>PO 105. Identify current and historical periods and cultures (e.g. western/eastern traditions) in dramatic scenes, scripts, and informal and formal productions.</td>
</tr>
<tr>
<td>PO 106. Describe how place and time affect characters and story in class <em>improvisations, scripts</em>, and productions of theatre and/or other media.</td>
</tr>
</tbody>
</table>

Approved 6.26.06
## Concept 5: Directing
### Beginning Objectives

- **PO 101.** Identify and explain the influence of time and place (history and environment) on the characters and the story to be dramatized.
- **PO 102.** Use a variety of sources (e.g., pictures, music, poetry, texts, library, artifacts) to research the characters, story, and environment for a dramatization.
- **PO 103.** Evaluate research materials for appropriateness and usefulness to support character, story development, and design.
- **PO 104.** Identify and explain the roles of the different artists in theatre (actor, designer/technician, playwright, director).
- **PO 105.** Identify current and historical periods and cultures (e.g., western/eastern traditions) in dramatic scenes, scripts, and informal and formal productions.

## Concept 1: Collaboration
### Beginning Objectives

- **PO 101.** Describe the ways in which the group participated in the collaborative process.

## Concept 2: Acting
### Beginning Objectives

- **PO 101.** Demonstrate respectful audience behavior.
- **PO 102.** Describe the believable actions and dialogue of improvised characters in classroom scenes.
- **PO 103.** Identify and describe the characters, environment, and story elements in a variety of written and performed events.
- **PO 104.** Justify the perception of a performance and critique its production elements.
- **PO 105.** Evaluate and justify, with examples, the meanings constructed from a dramatic text or performance relating to daily life.

## Concept 3: Theatre Technology and Design
### Beginning Objectives

- **PO 101.** Evaluate the playing space and setting used for a variety of dramatic works, classroom scenes, and informal or formal productions.
- **PO 103.** Evaluate how line, shape, texture, color, space, balance, and/or pattern help illustrate the environment of a story.
- **PO 104.** Evaluate the environment, setting, lights, sound, costumes and props in a variety of performed dramatic works to determine the mood and meaning of the story.
- **PO 105.** Evaluate the environment for safety issues that may effect the production.
### Concept 4: Playwriting
**Beginning Objectives**

| PO 101 | Recall and evaluate the storyline of a class **improvisation** or **performance**. |
| PO 102 | Recall and evaluate the character’s actions in a class **improvisation** or **performance**. |
| PO 103 | Describe how plot, character, and environment in plays, film/video, and electronic media are related to personal life. |
| PO 104 | Identify by genre a dramatic concept, script, classroom, or **formal production**. |
| PO 105 | Identify and describe the characters, environment, and story elements in a variety of written and performed events. |

### Concept 5: Directing
**Beginning Objectives**

| PO 101 | Explain and justify the basic elements of a dramatic text (e.g., problem/solution, beginning, middle and end, characters, and environment) and performance essentials (e.g., visibility and audibility of actors, appropriateness of setting). |
| PO 102 | Explain and justify personal preferences for specific elements and/or moments in dramatizations. |
| PO 103 | Identify and describe the characters, environment, and story elements in a variety of written and performed events. |
BEGINNING VISUAL ARTS: Early Elementary Grades

Strand 1: Create

<table>
<thead>
<tr>
<th>Concept 1: Creative Process - The student will develop, revise, and reflect on ideas for expression in his or her own artwork</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives for Early Elementary Grades</strong></td>
</tr>
<tr>
<td>PO 001. Contribute to a discussion about ideas for his or her own artwork.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Materials, Tools, and Techniques • The student will use materials, tools, and techniques in his or her own artwork.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives for Early Elementary Grades</strong></td>
</tr>
<tr>
<td>PO 001. Identify and experiment with materials, tools, and techniques in his or her own artwork.</td>
</tr>
<tr>
<td>PO 002. Use materials, tools, and techniques appropriately in his or her own artwork.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 3: Elements and Principles • The student will use elements of art and principles of design in his or her own artwork</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives for Early Elementary Grades</strong></td>
</tr>
<tr>
<td>PO 001. Identify and use elements in his or her own artwork.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 4: Meanings or Purposes • The student will express ideas to communicate meanings or purposes in artwork.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives for Early Elementary Grades</strong></td>
</tr>
<tr>
<td>PO 001. Describe and explain his or her own artwork.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 5: Quality - The student will apply criteria to assess the quality of in-progress and finished artwork.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginning Objectives for Early Elementary Grades</strong></td>
</tr>
<tr>
<td>PO 001. Identify successful aspects of his or her own artwork and possible revisions.</td>
</tr>
</tbody>
</table>

Approved 6.26.06
**Strand 2 - Relate**

<table>
<thead>
<tr>
<th>Concept 1:</th>
<th>Artworlds - The student will describe the role that art plays in culture and how it reflects, records, and interacts with history in various times, places, and traditions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives for Early Elementary Grades</td>
<td>PO 001. Contribute to a discussion about who artists are, what they do, and why they create art.</td>
</tr>
<tr>
<td></td>
<td>PO 002. Discuss how an artwork is used to communicate stories, ideas, and emotions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2:</th>
<th>Materials, Tools, and Techniques - The student will identify/analyze the use of materials, tools, and techniques in artwork.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives for Early Elementary Grades</td>
<td>PO 001. Identify the relationship between tools, materials, and/or techniques.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 3:</th>
<th>Elements and Principles - The student will explore the artistic traditions and visual conventions from diverse cultures, which often differ from the elements and principles traditionally used in many Western cultures.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives for Early Elementary Grades</td>
<td>PO 001. Identify visual/tactile characteristics of artworks from a diverse culture, different place, or time.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 4:</th>
<th>Meanings or Purposes – The student will interpret meanings or purposes of artwork based on contextual information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives for Early Elementary Grades</td>
<td>PO 001. Interpret meanings and/or purposes of an artwork using subject matter and <strong>symbols</strong>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 5:</th>
<th>Quality - The student will investigate and/or speculate about what characteristics in artworks are valued by various cultures.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Objectives for Early Elementary Grades</td>
<td>PO 001. Contribute to a discussion about why artworks have been valued within the context of the culture in which they were made</td>
</tr>
<tr>
<td></td>
<td>PO 002. Demonstrate respect while responding to others’ artwork.</td>
</tr>
</tbody>
</table>
**ARIZONA ACADEMIC STANDARDS IN THE ARTS**  
**ARTICULATED FOR FIRST GRADE**

### Strand 3 – Evaluate

#### Concept 1: Art Issues and Values
- The student will justify general conclusions about the nature and value of art.

**Beginning Objectives for Early Elementary Grades**

- **PO 001.** Form and support opinions about art (e.g., what art is and why it is important).
- **PO 002.** Distinguish art from other objects.
- **PO 003.** Discuss reasons why people value art (e.g., sentimental, financial, religious, political, and historical).

#### Concept 2: Materials, Tools, and Techniques
- The student will reflect on, and determine how materials, tools, and techniques affect meanings, purposes, and value in artworks.

**Beginning Objectives for Early Elementary Grades**

- **PO 001.** Describe the visual effects created by an artist’s use of tools, materials, and techniques in an artwork.

#### Concept 3: Elements and Principles
- The student will judge the effectiveness of the artist’s use of elements of art and principles of design in communicating meanings and/or purposes, in artworks.

**Beginning Objectives for Early Elementary Grades**

- **PO 001.** Identify an element in an artwork that supports its meaning and/or purpose.

#### Concept 4: Meanings or Purposes
- The student will judge an artist’s success in communicating meaning or purpose in their artwork.

**Beginning Objectives for Early Elementary Grades**

- **PO 001.** Discuss how an artist communicates meaning and/or purpose in an artwork.

#### Concept 5: Quality
- The student will apply criteria for judging the quality of specific artwork.

**Beginning Objectives for Early Elementary Grades**

- **PO 001.** Compare an original artwork with a reproduction (e.g., make a museum/artist’s studio visit to compare details, size, luminosity, three dimensionality, surface texture).
Comprehensive Health Education/
Physical Activity Standards 1997

Foundations (Grades 1-3)
Comprehensive Health Rationale

Parents and Guardians

It is understood that parents and guardians are the primary educators in their children’s health; therefore, it is important to include the applicable statutes and state Board of Education rule in the comprehensive health education standards. Parents and guardians must be provided opportunities to preview school district policies, curriculum and take-home materials.

The ultimate goal of comprehensive health education is to help young people in Arizona achieve their fullest potential by attaining their highest level of health and wellness as students and adults. Basic to health education is the knowledge about the importance of the interrelationships of physical, behavioral, and social well-being and the prevention of diseases and other health problems. Students should learn to accept responsibility for personal health decisions and practices, work with others to maintain a healthy environment, as well as become informed consumers.

*Rationale for Standard 1:* Students comprehend concepts related to health promotion and disease prevention.

Comprehension of health promotion strategies and disease prevention concepts enables students to become health literate, self-directed learners, which establishes a foundation for leading healthy and productive lives.

*Rationale for Standard 2:* Students demonstrate the ability to access accurate health information.

Accessing valid health information and health promoting products and services is important in the prevention, early detection and treatment of most health problems. Applying skills of information analysis, organization, comparison, synthesis and evaluation to health issues provides a foundation for individuals to move toward becoming health literate and responsible, productive citizens.

*Rationale for Standard 3:* Students demonstrate the ability to practice health-enhancing behaviors and reduce health risks.

Research confirms that many diseases and injuries can be prevented by reducing harmful and risk-taking behaviors. Accepting responsibility and practicing health-enhancing behaviors can contribute to a positive quality of life.

*Rationale for Standard 4:* Students analyze the influence of culture, media, technology and other factors on health.

Health is influenced by a variety of factors that coexist within society. The ability to analyze, evaluate and interpret the influence of culture, media and technology on health
is important in a rapidly changing world. The health literate, responsible and productive citizen draws upon the contributions of these factors to strengthen individual, family and community health.

**Rationale for Standard 5:** Students demonstrate the ability to use interpersonal skills to enhance health.

Personal, family and community health are enhanced through effective communication. The ability to organize and to convey information, beliefs, opinions, and feelings (both verbal and nonverbal) are skills that strengthen interactions and can reduce or avoid conflict. When communicating, individuals who are health literate demonstrate care, consideration, and respect for self and others.

**Rationale for Standard 6:** Students demonstrate the ability to use goal setting and decision-making skills to enhance health.

Decision-making and goal setting are essential lifelong skills needed to implement and sustain health-enhancing behaviors. These skills make it possible for individuals to transfer health knowledge into healthy lifestyles, thus improving the quality of life.

**Rationale for Standard 7:** Students demonstrate the ability to advocate for personal, family and community health.

Quality of life is dependent on an environment that protects and promotes the health of individuals, families and communities. Responsible citizens who are health literate communicate and advocate for positive health in their communities.

§ 15-102. Parental involvement in the school; definition
A. The governing board, in consultation with parents, teachers and administrators, shall develop and adopt a policy to promote the involvement of parents and guardians of children enrolled in the schools within the school district, including:
   1. A plan for parent participation in the schools which is designed to improve parent and teacher cooperation in such areas as homework, attendance and discipline.
   2. Procedures by which parents may learn about the course of study for their children and review learning materials.
   3. Procedures by which parents who object to any learning material or activity on the basis that it is harmful may withdraw their children from the activity or from the class or program in which the material is used. Objection to a learning material or activity on the basis that it is harmful includes objection to a material or activity because it questions beliefs or practices in sex, morality or religion.
B. The policy adopted by the governing board pursuant to this section may also include the following components:
   1. A plan by which parents will be made aware of the district’s parental involvement policy and the provisions of this section, including:
      (a) Rights under the family educational rights and privacy act of 1974 relating to access to children’s official records.
(b) The parent’s right to inspect the school district policies and curriculum.
2. Efforts to encourage the development of parenting skills.
3. The communication to parents of techniques designed to assist the child’s
   learning experience in the home.
4. Efforts to encourage access to community and support services for children and
   families.
5. The promotion of communication between the school and parents concerning
   school programs and the academic progress of the parents’ children.
6. Identifying opportunities for parents to participate in and support classroom
   instruction at the school.
7. Efforts to, with appropriate training, support parents as shared decision makers
   and to encourage membership on school councils.
8. The recognition of the diversity of parents and the development of guidelines that
   promote widespread parental participation and involvement in the school at
   various levels.
9. The development of preparation programs and specialized courses for
   certificated employees and administrators that promote parental involvement.
10. The development of strategies and programmatic structures at schools to
    encourage and enable parents to participate actively in their children’s education.

C. For the purposes of this section, “parent” means the parent or person who has
    custody of the child.

R7-2-303. Sex Education
A. Instruction in sex education in the public schools of Arizona shall be offered only in
   conformity with the following requirements.
   1. Common schools: Nature of instruction; approval; format.
      a. Supplemental/elective nature of instruction. The common schools of Arizona
         may provide a specific elective lesson or lessons concerning sex education as a
         supplement to the health course study.
         i. This supplement may only be taken by the student at the written request of
            the student’s parent or guardian.
         ii. Alternative elective lessons from the state-adopted optional subjects shall
             be provided for students who do not enroll in elective sex education.
         iii. Elective sex education lessons shall not exceed the equivalent of one class
             period per day for one-eighth of the school year for grades K-4.
         iv. Elective sex education lessons shall not exceed the equivalent of one
             class period per day for one-quarter of the school year for grades 5-8.
      b. Local governing board approval. All elective sex education lessons to be
         offered shall first be approved by the local governing board.
         i. Each local governing board contemplating the offering of elective sex
            education shall establish an advisory committee with membership
            representative of district size and the racial and ethnic composition of the
            community to assist in the development of lessons and advise the local
            governing board on an ongoing basis.
         ii. The local governing board shall review the total instruction materials for
             lessons presented for approval.
iii. The local governing board shall publicize and hold at least two public hearings for the purpose of receiving public input at least one week prior to the local governing board meeting at which the elective sex education lessons will be considered for approval.

iv. The local governing board shall maintain for viewing by the public the total instructional materials to be used in approved elective sex education lessons within the district.

c. Format of instruction.
   i. Lessons shall be taught to boys and girls separately.
   ii. Lessons shall be ungraded, require no homework, and any evaluation administered for the purpose of self-analysis shall not be retained or recorded by the school or the teacher in any form.
   iii. Lessons shall not include tests, psychological inventories, surveys, or examinations containing any questions about the student’s or his parents’ personal beliefs or practices in sex, family life, morality, values or religion.

2. High Schools: Course offering; approval; format.
   a. A course in sex education may be provided in the high schools of Arizona.
   b. The local governing board shall review the total instructional materials and approve all lessons in the course of study to be offered in sex education.
   c. Lessons shall not include tests, psychological inventories, surveys, or examinations containing any questions about the student’s or his parents’ personal beliefs or practices in sex, family life, morality, values or religion.
   d. Local governing boards shall maintain for viewing by the public the total instructional materials to be used in all sex education courses to be offered in high schools within the district.

3. Content of instruction: Common schools and high schools.
   a. All sex education materials and instruction shall be age appropriate, recognize the needs of exceptional students, meet the needs of the district, recognize local community standards and sensitivities, shall not include the teaching of abnormal, deviate, or unusual sexual acts and practices, and shall include the following:
      i. Emphasis upon the power of individuals to control their own personal behavior. Pupils shall be encouraged to base their actions on reasoning, self-discipline, sense of responsibility, self-control and ethical considerations such as respect for self and others; and
      ii. Instruction on how to say “no” to unwanted sexual advances and to resist negative peer pressure. Pupils shall be taught that it is wrong to take advantage of, or to exploit, another person.
   b. All sex education materials and instruction which discuss sexual intercourse shall:
      i. Stress that pupils should abstain from sexual intercourse until they are mature adults;
      ii. Emphasize that abstinence from sexual intercourse is the only method for avoiding pregnancy that is 100 percent effective;
      iii. Stress that sexually transmitted diseases have severe consequences and constitute a serious and widespread public health problem;
iv. Include a discussion of the possible emotional and psychological consequences of preadolescent and adolescent sexual intercourse and the consequences of preadolescent and adolescent pregnancy;

v. Promote honor and respect for monogamous heterosexual marriage; and

vi. Advise pupils of Arizona law pertaining to the financial responsibilities of parenting, and legal liabilities related to sexual intercourse with a minor.

B. Certification of compliance. All districts offering a local governing board-approved sex education course of lesson shall certify, under the notarized signature of both the president of the local governing board and the chief administrator of the school district, compliance with this rule except as specified in paragraph (C). Acknowledgment of receipt of the compliance certification from the state Board of Education is required as a prerequisite to the initiation of instruction. Certification of compliance shall be in a format and with such particulars as shall be specified by the Department of Education.

C. All districts offering state Board approved sex education lessons or courses prior to the effective date of this rule shall comply with this rule on or before June 30, 1990.

§ 15-716. Instruction on acquired immune deficiency syndrome; department assistance

A. Each common, high and unified school district may provide instruction to kindergarten programs through the twelfth grade on acquired immune deficiency syndrome and the human immunodeficiency virus.

B. Each district is free to develop its own course of study for each grade. At a minimum, instruction shall:
   1. Be appropriate to the grade level in which it is offered.
   2. Be medically accurate.
   3. Promote abstinence.
   4. Discourage drug abuse.
   5. Dispel myths regarding transmission of the human immunodeficiency virus.

C. No district shall include in its course of study instruction which:
   1. Promotes a homosexual life-style.
   2. Portrays homosexuality as a positive alternative life-style.
   3. Suggests that some methods of sex are safe methods of homosexual sex.

D. At the request of a school district, the department of health services or the department of education shall review instruction materials to determine their medical accuracy.

E. At the request of a school district, the department of education shall provide the following assistance:
   1. A suggested course of study.
   2. Teacher training
   3. A list of available films and other teaching aids.

F. At the request of a parent, a pupil shall be excused from instruction on the acquired immune deficiency syndrome and the human immunodeficiency virus as provided in subsection A of this section. The school district shall notify all parents of their ability to withdraw their child from the instruction.
ADDENDUM
A Brief Description of Ten Major Content Areas in Comprehensive School Health Education

1. **Community Health** includes topics such as individual responsibility; healthful school, home and community environments; community health resources and facilities; official and nonofficial health agencies; health service careers; pollution control; community involvement; current issues; and trends in medical care.

2. **Consumer Health** addresses health care resources i.e., knowing what is available and how to be an educated consumer.

3. **Environmental Health** addresses individual and community responsibility, pollution, effects of environment on health, environmental protection agencies, population density, world health, waste disposal, sanitation, laws and career choices.

4. **Family Life Education** covers information about family dynamics, building relationships, child abuse, choices about relationships, family planning, parenting skills, sex education, and sexually transmitted diseases such as HIV infection and AIDS.

5. **Injury Prevention and Safety** includes learning about first aid and emergency health care and addresses the prevention of unintentional injuries. (Many schools include violence prevention and homicide as health issues within this content area.)

6. **Mental and Emotional Health** includes building self-esteem, effectively coping with stress, and communication skills, among others.

7. **Nutrition** addresses a balanced diet, food preparation, reading and understanding food labels, differences in nutritional needs for pregnant women, and more.

8. **Personal Health** includes physical fitness and lifetime activities, cardiovascular health, sleep, rest, relaxation, recreation, growth and development, oral health, vision and hearing, body systems and their functions, aging, personal wellness plans, and positive health habits and choices.

9. **Prevention and Control of Disease** addresses heart disease, stroke, diabetes, cancer, HIV/AIDS and others.

10. **Substance Use and Abuse** refers to the use and misuse of tobacco, alcohol, and other drugs and often includes topics such as positive decision-making, individual responsibility, substances beneficial to humankind, the classification of substances and their effects on the body, and the formation of habits and their influence.

The ten major content areas in this addendum are provided to assist local school districts in developing sequential curricula. It will be left to the discretion of the local district to determine the emphasis of each of the content areas. The Comprehensive Health Education and Physical Activity Standards are the required competency indicators, while the addendum is a tool to be used by school districts as a cross-reference.
STANDARD 1
Students comprehend concepts related to health promotion and disease prevention.

- **1CH-F1. Describe relationships between personal health behavior (e.g., sleep, diet, fitness and personal hygiene) and individual well-being**
  
  PO 1. Explain positive effects of a balanced, healthy lifestyle (e.g., being alert, rested, energetic, healthy)
  PO 2. Explain importance of personal health-promoting behaviors (e.g., covering sneezes and coughs, proper hand washing, adequate sleep, healthy diet, physical activity)

- **1CH-F2. Identify indicators of mental, emotional, social and physical health during childhood**
  
  PO 1. Describe how feelings affect behavior (e.g., anger, fear, pride, happiness, sadness, frustration)
  PO 2. Recognize the importance of developing friendships
  PO 3. Describe at least three ways to prevent the spread of germs

- **1CH-F3. Describe the basic structure and functions of the human body systems**
  
  PO 1. Identify the parts of the digestive and circulatory system
  PO 2. Describe the functions of the digestive and circulatory systems

- **1CH-F4. Describe how heredity, family life and individual lifestyle affect personal health**
  
  PO 1. Explain how hereditary traits are passed on from parents to children (e.g., high blood pressure, diabetes, poor eyesight)
  PO 2. Explain how eating/activity habits effect lifestyle

- **1CH-F5. Describe how environmental health and personal health are related**
  
  PO 1. Show relationships of behavior to environment (e.g., weather and appropriate dress, pollen and allergies/asthma, pollution and respiration, pollution and skin)
• **1CH-F6.** Identify health problems that should be detected and treated early and the reasons why

PO 1. Describe health problems and early detection  
PO 2. Describe the benefits of early treatment

• **1CH-F7.** Identify the characteristics, causes, prevention and treatment of common childhood injuries and illnesses

PO 1. List common childhood illnesses, their causes and prevention  
PO 2. List common childhood injuries, their causes, prevention and treatment  
PO 3. Illustrate ways to keep germs from spreading  
PO 4. Illustrate ways to prevent injuries

**STANDARD 2**

Students demonstrate the ability to access accurate health information.

• **2CH-F1.** Identify characteristics of accurate health information (e.g., research-based, current) and health promoting products (e.g., weight scales, thermometers, eye glasses) and services (e.g., school meal program, school nurse, after school activities)

PO 1. List sources of accurate/reliable health information  
PO 2. List health promoting products  
PO 3. Name health promoting services that contribute to health

• **2CH-F2.** Demonstrate the ability to locate resources from home, school and community that provide accurate health information

PO 1. Describe health/emergency agencies that provide services (e.g., community health agencies, schools, poison control centers, Web sites)

• **2CH-F3.** Explain how media influences the selection and use of health information, products and services

PO 1. Describe how advertisement affects choices  
PO 2. Identify ways media (movies) influence health decisions

• **2CH-F4.** Demonstrate the ability to locate home and school health helpers

PO 1. Convey how to access appropriate health/emergency services
COMPREHENSIVE HEALTH STANDARDS FOUNDATIONS (GRADES 1-3)

• **2CH-F5. Locate and describe the roles of resources (health workers and organizations) from the school and community**
  
  PO 1. State appropriate agencies to contact  
  PO 2. Identify resources (e.g., parents, health department, fire department)

• **2CH-F6. Describe the consequences of appropriate and inappropriate use of drugs and medicine**
  
  PO 1. Identify safe practices of taking medicine and storing it properly  
  PO 2. Identify the harmful effects of inappropriate use of drugs and medicine

• **2CH-F7. Identify when and how to seek emergency medical assistance and shelter**
  
  PO 1. Demonstrate how to contact parents and/or emergency services in emergency situations  
  PO 2. Recall emergency numbers

**STANDARD 3**

Students demonstrate the ability to practice health-enhancing behaviors and reduce health risks.

• **3CH-F1. Identify responsible health behaviors and compare them to risky/harmful behaviors (e.g., responsible: tooth brushing, exercise, sleep, nutrition; risky: the use of tobacco, alcohol and other drugs)**
  
  PO 1. Discuss responsible health behavior vs. risky or harmful behaviors

• **3CH-F2. Identify personal health needs and strategies to maintain or improve one's well-being**
  
  PO 1. Discuss good health habits  
  PO 2. Discuss ways to promote and maintain good health habits  
  PO 3. Establish a plan for personal health standards

• **3CH-F3. Identify hazards found in the home, school and community and demonstrate ways to avoid or reduce the threats**
  
  PO 1. List hazards found in the home, school, and community  
  PO 2. Discuss ways to avoid and/or reduce the threats
COMPREHENSIVE HEALTH STANDARDS
FOUNDATIONS (GRADES 1-3)

- **3CH-F4. Apply skills to manage stress**
  
  PO 1. Identify causes of stress
  PO 2. Describe ways to reduce stress

- **3CH-F5. Demonstrate first aid procedures and appropriate responses to common emergencies in the home, school and community**

  PO 1. Describe a minimum of three first aid procedures
  PO 2. Determine correct response in case of accident or sudden illness

**STANDARD 4**
Students analyze the influence of culture, media, technology and other factors on health.

- **4CH-F1. Describe personal health behaviors (e.g., nutrition, exercise) in a variety of cultures**

  PO 1. Demonstrate awareness of individual and ethnic variation of food choices and exercise

- **4CH-F2. Explain how the media influence health behaviors**

  PO 1. Describe how advertising influences health behavior
  PO 2. Describe how movies and cartoons influence health behavior

- **4CH-F3. Describe ways technology can influence personal health**

  PO 1. Explain how technology has influenced personal health (e.g., 911 system, X-rays, blood pressure cuffs, thermometers)

- **4CH-F4. Explain how information from school and family influences health**

  PO 1. Same as concept

**STANDARD 5**
Students demonstrate the ability to use interpersonal skills to enhance health.

- **5CH-F1. Distinguish between verbal and nonverbal communication**

  PO 1. Describe differences between nonverbal and verbal communication
COMPREHENSIVE HEALTH STANDARDS FOUNDATIONS (GRADES 1-3)

- **5CH-F2. Describe characteristics needed to be a responsible friend and family member**
  
  PO 1. Explain what it means to care and be a friend
  PO 2. List characteristics needed to be responsible

- **5CH-F3. Describe ways to communicate care, consideration, and respect of self and others**
  
  PO 1. Explain how one communicates feelings (nonverbal and verbal)
  PO 2. Show use of effective "I" messages

- **5CH-F4. Demonstrate healthy ways to express needs, wants and feelings, and identify a variety of ways to deal with them constructively and appropriately**
  
  PO 1. Resolve conflict in socially acceptable ways
  PO 2. Formulate self-esteem building skills

- **5CH-F5. Demonstrate attentive listening skills to build and maintain healthy relationships**
  
  PO 1. Explain characteristics of attentive listening
  PO 2. Illustrate effective listening skills

- **5CH-F6. Describe refusal skills to enhance mental, emotional and physical health**
  
  PO 1. Explain how refusal skills enhance mental, emotional and physical health
  PO 2. Practice positive behavior towards others

- **5CH-F7. Identify negative and positive behaviors exhibited in conflict situations and strategies for mediating and resolving the conflict**
  
  PO 1. List negative and positive behaviors exhibited in conflict situations and strategies for mediating and resolving the conflict
  PO 2. Explain the difference between negative and positive behaviors exhibited in conflict situations and strategies for mediating and resolving the conflict

**STANDARD 6**

Students demonstrate the ability to use goal setting and decision-making skills to enhance health.

- **6CH-F1. Apply a sound decision-making process to resolve health issues and problems**
PO 1. Explain positive strategies to resolve problems
PO 2. Describe positive strategies to resolve health issues
PO 3. Demonstrate positive decision-making to resolve a health issue or problem

- **6CH-F2. Explain the effects of personal health care choices**

  PO 1. Identify the effects of personal health choices (positive and negative)

- **6CH-F3. Set a personal health goal and track progress toward its achievement**

  PO 1. List a personal health goal
  PO 2. Chart progress toward achievement

**STANDARD 7**

Students demonstrate the ability to advocate for personal, family and community health.

- **7CH-F1. Describe a variety of methods to convey accurate health information and ideas**

  PO 1. Same as concept

- **7CH-F2. Collect information about health issues**

  PO 1. State health issues (safety, personal care, disease prevention, substance abuse prevention, nutrition, emotional and family life)

- **7CH-F3. List a variety of ways to support others in making positive health choices (e.g., exercising, making healthy food choices, hand washing)**

  PO 1. Same as concept
Physical Activity Standards Rationale

A wealth of information has been accumulated to point to the importance of physical activity in promoting health and wellness. Evidence also indicates that habits (lifestyles) established in youth are likely to influence adult lifestyles and associated health and wellness. Physical activity, a primary risk factor for many chronic health conditions, is an integral part of comprehensive school health education but also must be promoted as an important educational goal. Meeting physical activity standards includes both promotion of physical activity among youth and promotion of lifelong physical activity that will enhance workplace skills, fitness and wellness associated with quality of life. Achieving lifetime physical activity standards results in learning real life skills. Higher order skills include decision-making and problem solving required to become informed, lifetime physical activity consumers.

Rationale for Standard 1: Students demonstrate proficiency and the achievement of higher order cognitive skills necessary to enhance motor skills.

Movement competence implies the development of sufficient ability to enjoy participation in physical activities and re-establish a foundation to facilitate continued motor skill acquisition and increased ability to engage in developmentally appropriate daily physical activities. In addition to achieving competence in a few movement forms, which increases the likelihood of lifetime activity participation, the students apply concepts from exercise science disciplines that will help them achieve independence in developing movement competence in new movement forms. The focus is on movement forms appropriate for lifetime activity involvement and the establishment of personal competence.

Rationale for Standard 2: Students comprehend basic physical activity principles and concepts that enable them to make decisions, solve problems and become self-directed lifelong learners who are informed physical activity consumers.

Accessing accurate physical activity information, products and services is important to become informed, responsible physical activity consumers.

Rationale for Standard 3: Students exhibit a physically active lifestyle.

The intent of this standard is to establish patterns of regular participation in meaningful physical activity. This standard connects what is taught in school with students’ choices for physical activity outside of school. Students are more likely to participate in physical activities if they have had opportunities to develop interests that are personally meaningful to them.
Rationale for Standard 4: Students achieve and maintain a health-enhancing level of physical fitness.

The intent of this standard is for the student to achieve a health-enhancing level of physical fitness. Students should be encouraged to develop personal fitness levels above those necessary for health-enhancement, based on unique personal needs and interests and necessary for many work situations and active leisure participation. Health-related fitness components include cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition. Expectations for students’ fitness levels should be established on a personal basis, taking into account variation in entry levels, rather than setting a single standard for all children at a given grade level.

Rationale for Standard 5: Students develop self-initiated behaviors that promote effective personal and social interactions in physical activity settings.

The intent of this standard is achievement of self-initiated behaviors that promote personal and group success in activity settings. Behaviors such as safe practices, adherence to rules and procedures, etiquette, cooperation and teamwork, ethical behavior in sports, and positive social interaction are necessary for all students to develop effective communication skills.

Rationale for Standard 6: Students demonstrate understanding and respect for differences among people in physical activity settings.

The intent of this standard is to develop respect for similarities and differences through positive interaction among participants in physical activity. Similarities and differences include characteristics of culture, ethnicity, motor performance, disabilities, physical characteristics (e.g., strength, size, shape), gender, race and socioeconomic status.

Rationale for Standard 7: Students develop behavioral skills (self-management skills) essential to maintaining a physically active lifestyle.

The intent of this standard is for students to develop an awareness of the intrinsic benefits of participation in lifelong physical activity. Physical activity can provide opportunities for enjoyment, physical fitness and personal challenge.
PHYSICAL ACTIVITY STANDARDS FOUNDATIONS (GRADES 1-3)

STANDARD 1
Students demonstrate proficiency and the achievement of higher order cognitive skills necessary to enhance motor skills.

• 1PA-F1. Demonstrate mature form in all locomotor patterns and selected manipulative and nonlocomotor skills

PO 1. Perform all eight locomotor skills with mature form (walk, run, hop, jump, skip, slide, gallop and leap)
PO 2. Perform four manipulative skills with mature form
PO 3. Perform four nonlocomotor skills with mature form
PO 4. Perform movement skills to a rhythm

• 1PA-F2. Adapt a skill area (e.g., dribbling, passing, dance sequence) to the demands of a game-like situation

PO 1. Demonstrate the ability to adapt movement skills to changing environmental conditions and expectations (e.g., partner needs for force production, tossing a ball a moving partner, rising and sinking while twisting, using different rhythms)
PO 2. Combine a variety of physical activities (e.g., various travel patterns in relation to music, locomotor and nonlocomotor combinations)

• 1PA-F3. Demonstrate beginning skills of a few specialized movement forms

PO 1. Dribble and pass a variety of objects to self and around stationary objects (hands, feet and equipment)
PO 2. Throw and kick using mature form
PO 3. Strike a ball repeatedly with hand or object
PO 4. Toss and catch a ball alone or with a partner

• 1PA-F4. Combine movement skills in applied settings

PO 1. Demonstrate control in traveling activities, weight bearing, and balanced activities on a variety of body parts
PO 2. Demonstrate skills of chasing, fleeing, dodging to avoid others
PHYSICAL ACTIVITY STANDARDS FOUNDATIONS (GRADES 1-3)

- **1PA-F5.** Apply critical elements to improve personal performance in fundamental and selected specialized movement skills
  
  PO 1. Demonstrate critical elements of a fundamental skill (e.g., throwing, kicking, striking)
  PO 2. Use concepts of space, effort, and relationships that vary the quality of movement

- **1PA-F6.** Use critical elements of fundamental and specialized movement skills to provide feedback to others
  
  PO 1. Use feedback to improve personal performance
  PO 2. Recognize the critical elements of a fundamental movement or skill performed by a fellow student and provide feedback to that student

- **1PA-F7.** Apply concepts that impact the quality of increasingly complex movement performance (e.g., maintaining a wide base of support in a balance activity)
  
  PO 1. Understand that appropriate practice improves performance (e.g., a ball must be passed in front of a moving player; the lower the center of gravity, the more stable an object).

**STANDARD 2**

Students comprehend basic physical activity principles and concepts that enable them to make decisions, solve problems and to become self-directed lifelong learners who are informed physical activity consumers.

- **2PA-F1.** Identify several activities related to each component of health-related physical fitness
  
  PO 1. Identify the components of health-related physical fitness (i.e., cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, body composition)
  PO 2. Identify and demonstrate several activities related to each component of physical fitness

- **2PA-F2.** Explain that muscles produce movement and begin to identify muscles
  
  PO 1. Name and locate large muscle groups
  PO 2. Demonstrate activities that utilize specific muscle groups
PHYSICAL ACTIVITY STANDARDS FOUNDATIONS (GRADES 1-3)

• 2PA-F3. Demonstrate how to perform physical fitness tests
  
  PO 1. Demonstrate correct form when performing physical fitness activities

STANDARD 3
Students exhibit a physically active lifestyle.

• 3PA-F1. Select and participate regularly in physical activities for the purpose of improving skill and health
  
  PO 1. Participate regularly in physical activity for the purpose of improving skill performance
  PO 2. Participate regularly in physical activity for the purpose of developing a healthy lifestyle

• 3PA-F2. Identify the benefits derived from regular physical activity
  
  PO 1. Describe health benefits that result from regular and appropriate participation in physical activity
  PO 2. Identify benefits of at least one activity they regularly participate in

• 3PA-F3. Identify several moderate to vigorous physical activities that provide personal pleasure
  
  PO 1. Same as concept

STANDARD 4
Students achieve and maintain a health-enhancing level of physical fitness.

• 4PA-F1. Accomplish the health-related fitness standards as defined by Fitnessgram
  
  PO 1. Identify the components of health-related physical fitness, (i.e., cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, body composition)
  PO 2. Identify and demonstrate several activities related to each component of physical fitness

• 4PA-F2. Participate regularly in physical activity for the purpose of improving physical fitness (goal setting)
  
  PO 1. Engage in appropriate physical activity that results in the improvement of health-related physical fitness
PHYSICAL ACTIVITY STANDARDS FOUNDATIONS (GRADES 1-3)

STANDARD 5
Students develop self-initiated behaviors that promote effective personal and social interactions in physical activity settings.

- **5PA-F1. Follow, with few reminders, activity-specific rules, procedures and etiquette**
  
  PO 1. Respond positively to an occasional reminder about a rule/infracion
  PO 2. Use expected behaviors in physical activity settings

- **5PA-F2. Utilize safety principles in activity situations**
  
  PO 1. Stop activity immediately at the signal to do so
  PO 2. Demonstrate and use equipment safely and responsibly
  PO 3. Use the rules of physical education on the playground

- **5PA-F3. Work cooperatively and productively with a partner or small group**
  
  PO 1. Use respect during all physical activity
  PO 2. Work cooperatively with another to complete an assigned task

- **5PA-F4. Work independently and on-task for short periods of time**
  
  PO 1. Demonstrate specific teacher-directed skills until a signal is given to end task
  PO 2. Demonstrate the ability to share equipment with other students before repeating a turn

- **5PA-F5. Interact with peers while participating in group activities**
  
  PO 1. Treat others with respect during physical activity
  PO 2. Resolve conflicts in socially acceptable ways

STANDARD 6
Students demonstrate understanding and respect for differences among people in physical activity settings.

- **6PA-F1. Participate in multicultural physical activities**
  
  PO 1. Identify one’s own cultural/ethnic roots
  PO 2. Apply variations in activities and games enjoyed in classmates’ homes and neighborhoods
PHYSICAL ACTIVITY STANDARDS FOUNDATIONS (GRADES 1-3)

- **6PA-F2.** Explain the attributes that individuals with differences can bring to group activities
  
  PO 1. Display consideration of others' abilities in physical activity settings

- **6PA-F3.** Describe differences and similarities among the activities of a variety of national, cultural and ethnic backgrounds
  
  PO 1. Share with peers an activity, dance or game in which he/she has participated with family or friends

**STANDARD 7**

Students develop behavioral skills (self-management skills) essential to maintaining a physically active lifestyle.

- **7PA-F1.** Practice activities to increase skill and fitness competence (goal setting)
  
  PO 1. Select activities that are personally challenging and rewarding
  PO 2. Explain how repeated practice will lead to skill and fitness success
  PO 3. Explain how gained competence provides increased enjoyment in movement and fitness activities

- **7PA-F2.** Associate results of fitness testing to personal health status and ability to perform various activities
  
  PO 1. Same as concept
Foreign and Native Language Standards 1997

Foundations (Grades 1-3)
Today’s students prepare for the tomorrow in which they will need to function in varied contexts. The constant shrinking of the globe will expand their experience beyond that of previous generations to include contacts with other languages and cultures, both in their private lives and in their work. Languages are increasingly demanded in a wide range of professions. To succeed, students will need new tools, many of which are available primarily, if not solely, through the study of other languages. They include:

- **the ability to communicate well for varied purposes.** In other languages, as well as in English, effective communication requires an understanding of both the target language and culture under study and one’s own, which implies the ability to interact confidently within many arenas, including the workplace and communities where the language is spoken.

- **a solid foundation in basic subject matter and skills.** All core subjects must contribute to this end, in an integrated fashion, to aid students in realizing the connections among the parts of their education. Basic subject matter includes the development of verbal reasoning, and listening skills and knowledge of the great achievements of human cultures, e.g., artistic, literary, scientific. The study of another language has been shown to enhance student performance in other academic fields. Learnings from other fields can also be reinforced in the foreign language classroom.

- **an understanding and appreciation of the diversity of languages and cultures, including one’s own.** These tools aid students to function as responsible, informed, and confident citizens and enhance their personal development. They allow the finding of one’s own place in the wider world.

**Introduction to the Foreign Language Standards**

The foreign language standards state what students need to know about languages and cultures, including their own; what students need to be able to do; and how this knowledge and these abilities relate to the subject matter of other core areas. The standards are stated clearly and in measurable terms:

- what students need to **know** in order to function successfully as they enter a new millennium that promises major changes in communications and contacts with other languages and cultures;

- what students need to be able to **do.** Knowing about a language and its culture(s), while essential, is not sufficient; students will develop skills for functioning effectively in varied contexts; and
the integration of foreign languages into the rest of the curriculum so that the connections are clear and so that learning in all areas is facilitated, including the development of a deeper understanding of one’s own language and culture. The five strands under which the standards are organized—Communication, Culture, Connections, Comparisons and Communities—are meant to be interwoven among themselves as well, rather than taught as separate entities. Meeting the standards for each one will contribute to reaching the standards of the others.

These standards for foreign language study are highly challenging for all students. They assume an extended sequence of learning throughout the students’ school career, thus reflecting the likely nature of schools in the future. Meeting these standards will require the study of grammar—the forms and structures of the language—as well as effective learning strategies. Students will also need to use technologies that will bring the language and the culture to them in new ways and enhance their opportunities to learn.

In these standards we refer to “the target language,” which may stand for “world language,” “foreign language,” “second language,” or “heritage language” (i.e., the language that is the predominant language in the home).

**Descriptions of Language Abilities for Each Level**

**Readiness**

Students use basic vocabulary related to people, places, things and actions close to their own lives. They express themselves in phrases, short sentences and memorized material. Their language is characterized by an emerging control of the most common basic grammatical forms and structures. Because comprehension of oral and written language normally exceeds production, students are able to comprehend simple descriptions, narratives, and authentic materials such as advertisements, on topics studied in class. Pronunciation and fluency are such that students often might not be understood by native speakers. They are able to write accurately what they can say.

**Foundations**

Students speak and write extemporaneously using short sentences and sentence strings in present tense on topics within their experience with the language. They can describe, ask and answer questions; engage in simple conversations; and carry out simple realistic functions such as ordering a meal, buying something, or introducing themselves or others to a group. Since their knowledge of the forms and structures of the language has grown rapidly but their practice has been limited, their speech is likely to contain numerous linguistic errors. Students are comprehensible to sympathetic listeners who have experience with non-native speakers of their language. Their written language still mirrors their oral language, although they may be able to express more ideas more accurately in writing, given time to reflect, review and revise.
**Essentials**

Students speak with somewhat longer utterances and begin to display an ability to connect phrases and sentences to show relations between ideas expressed. Although patterns of errors are still common, students now speak and write extemporaneously in past, present and future time, using vocabulary related to their own lives and interests. Accent and intonation are generally accurate, although pauses and false starts may be common, as students give simple instructions and directions, make comparisons, solve problems together, and engage in conversations on a range of topics including leisure activities, professions and current events. In written work, students’ spelling and punctuation are mostly accurate; and they organize their ideas well.

**Proficiency**

Students use paragraph-length connected discourse to narrate, describe, and discuss ideas and opinions. On topics of interest to them and within their experience, they show few patterns of linguistic errors, they are generally comprehensible to native speakers of the language, and their vocabulary is sufficient to avoid awkward pauses. They are able to circumvent linguistic gaps or lapses by “finding another way to say it.” Given time to reflect and revise, they are able to express their ideas completely and interestingly in writing, with generally accurate grammar, vocabulary, spelling, accents and punctuation. They comprehend most authentic expository and fictional material produced for contemporary native speakers.

**Distinction**

Students show almost no patterns of linguistic errors and are able to carry out almost any task that they can execute in English, albeit with less fluency and control or breadth of vocabulary and grammar. They can argue a point effectively and extemporaneously, explaining their point of view in detail. In writing, their ideas are well organized and clearly, completely, and interestingly presented, with accurate use of the language’s writing system. They can comprehend any non-technical material produced for the general public of native speakers in the standard language.
FOREIGN AND NATIVE LANGUAGE STANDARDS FOUNDATIONS (GRADES 1-3)

STANDARD 1: COMMUNICATION
Students understand and interpret written and spoken communication on a variety of topics in the target language.

- 1FL-F1. Comprehend and interpret a brief narrative or poem
- 1FL-F2. Comprehend brief written messages and short personal notes
- 1FL-F3. Comprehend simple recorded material
- 1FL-F4. Follow simple written instructions
- 1FL-F5. Identify parts of a short story, e.g., climax, main idea, conflict
- 1FL-F6. Comprehend the main ideas or themes and identify and describe the main characters in selected literary texts

STANDARD 2: COMMUNICATION
Students engage in oral and written exchanges which include providing and obtaining information, expressing feelings and preferences, and exchanging ideas and opinions in the target language.

- 2FL-F1. Express feelings
- 2FL-F2. Give and follow directions to carry out a specific task and ask questions for clarification
- 2FL-F3. Exchange information about personal events and memorable experiences
- 2FL-F4. State opinions about objects, people and events present in their everyday lives
- 2FL-F5. Acquire goods or information through interaction
FOREIGN AND NATIVE LANGUAGE STANDARDS FOUNDATIONS (GRADES 1-3)

STANDARD 3: COMMUNICATION
Students present information and ideas in the target language on a variety of topics to listeners and readers.

- 3FL-F1. Perform short plays, poems and songs
- 3FL-F2. Write or orally present brief messages that provide information
- 3FL-F3. Present basic (biographical) information about self or others in front of a group
- 3FL-F4. Read and recite short poems with appropriate expression and rhythm
- 3FL-F5. Share their interpretations, reactions and feelings about a piece of literature

STANDARD 4: CULTURE
Students know “what to do when” and “what to say while doing it” in the culture and use this knowledge to interact appropriately. They also understand the relationships between cultural perspectives, products and practices within cultures.

- 4FL-F1. Identify and discuss (in English, if necessary) typical behaviors from the target culture in a variety of specific settings
- 4FL-F2. Identify on a map the countries where the target language is spoken and the major cities and geographical features
- 4FL-F3. Use culturally appropriate language and behaviors in basic school and social situations
- 4FL-F4. Interpret cultural messages expressed in signs, symbols, advertisements, etc., in the target language

STANDARD 5: CONNECTIONS
Students use the target language and authentic sources to reinforce and/or learn other content from the other subject areas.

- 5FL-F1. Discuss topics in other school subjects in the target language including geographical terms, historical facts, mathematical terms and problems, and scientific information
- 5FL-F2. Comprehend articles or short videos in the target language on topics being studied in other classes
STANDARD 6: COMPARISONS
Students develop insights into their own language and their own culture through the study of the target language.

- 6FL-F1. Identify and compare (in English, if necessary) cultural perspectives of people in both their own culture and the culture being studied relating to family, school, work and play
- 6FL-F2. Recognize (in English, if necessary) the process of word/idea borrowing from one language by another
- 6FL-F3. Distinguish between the sound system and the writing system of the target language and the same elements in their own language
- 6FL-F4. Compare appropriate gestures in the target language and culture studied to their own

STANDARD 7: COMMUNITIES
Students use the target language within and beyond the school setting.

- 7FL-F1. Use the library to select books, magazines, CDs, etc., in the target language; share their content with others
- 7FL-F2. Identify people in the community who use the target language in their work; invite them to share information with the class and ask the questions
- 7FL-F3. Create original materials (e.g., short stories, poems, crafts) to exchange with classes in other communities or countries
- 7FL-F4. Present information to others (in English, if necessary) about the target language and culture
INTRODUCTION

Reading is a complex skill that involves learning language and using it effectively in the active process of constructing meaning embedded in text. It requires students to fluently decode the words on a page, understand the vocabulary of the writer, and use strategies to build comprehension of the text. It is a vital form of communication in the 21st century and a critical skill for students of this “information age” as they learn to synthesize a vast array of texts.

The Reading Standard Articulated by Grade Level will provide a clear delineation of what students need to know and be able to do at each grade level. This allows teachers to better plan instructional goals for students at any grade.

BACKGROUND

The state Board of Education adopted the Arizona Academic Standards in 1996 to define what Arizona’s students need to know and be able to do by the end of twelfth grade. Developed by committees comprised of educators, parents, students, and business and community leaders, these standards were written in grade-level clusters with benchmarks at grades 3, 5, 8, and high school.

RATIONALE

Requirements in the No Child Left Behind Act of 2001 (NCLB) and the standard practice of conducting periodic review of the state academic standards prompted the decision by the Arizona Department of Education to refine and articulate the academic standards for mathematics and reading by grade level. This refinement and articulation project was started in July 2002, and was completed in March 2003.

METHODOLOGY

Work teams for reading consisted of a representative sample of educators from around the state designed to include large and small schools, rural and urban schools, and ethnic diversity. National reading consultants, university professors, and test company consultants advised the teams. The goal was to articulate, or align, the current academic standards by grade level (K-12).

The Reading Articulation Teams utilized information from the National Council of Teachers of English and the findings of the National Reading Panel, which promote quality instruction, based on current, pedagogical, and researched practices.

The articulation process included a restructuring of the Arizona Academic Content Standards to better facilitate the alignment of performance objectives by grade level, while maintaining the content integrity of the existing standards. Over a period of
months, the articulation team and smaller sub-committees of the teams refined the documents. Reasonableness, usefulness, and appropriateness were the guidelines for the articulation process.

External reviews by nationally recognized consultants brought a broad perspective to the articulation process. Internal reviews by university and local experts provided additional validation.

Another important step in the project was the request for public comment. In December 2002, drafts of the Standards Articulated by Grade Level, along with a survey to gather feedback, were posted on the Arizona Department of Education website. This provided the public with easy access to the documents, and the survey allowed reviewers a means for submitting comments. The public and all educators had the opportunity to submit comments and suggestions, either electronically or in writing, until the survey closing date of January 31, 2003. In January, six public hearings were held throughout the state, offering further opportunities for public input.

After all the public comments were collected and organized by topic, the articulated teams met one last time to determine what modifications to the standards documents would be appropriate, based on this information. All public comments were given equal consideration.

The completion of the standards articulation process was followed by the development of rationales, glossaries, and crosswalks. These additional documents were designed to assist educators with the transition from the 1996 standards to the Reading Standard Articulated by Grade Level.
Strand 1: Reading Process

Reading Process consists of the five critical components of reading, which are Phonemic Awareness, Phonics, Fluency, Vocabulary and Comprehension of connected text. These elements support each other and are woven together to build a solid foundation of linguistic understanding for the reader.

### Concept 1: Print Concepts

**Demonstrate understanding of print concepts.**

- PO 1. Alphabetize a series of words to the first letter.
- PO 2. Distinguish between uppercase and lowercase letters.
- PO 3. Recognize the distinguishing features of a sentence (e.g., capitalization, ending punctuation).
- PO 4. Identify the title, author, and table of contents of a book

### Concept 2: Phonemic Awareness

**Identify and manipulate the sounds of speech.**

- PO 1. Generate a series of rhyming words, including consonant blends.
- PO 2. Orally segment a multi-syllable word into its syllables.
- PO 3. Recognize the new spoken word when a specified phoneme is added, changed or removed (e.g., change cow to how, pan to an).
- PO 4. Distinguish between initial, medial, and final sounds in single-syllable words.
- PO 5. Distinguish between long and short vowel sounds in orally stated single-syllable words (bit/bite).
- PO 6. Generate sounds from letters and letter patterns, including consonant blends and long- and short-vowel patterns (phonograms), to combine those sounds into recognizable words.
- PO 7. Blend spoken phonemes with more than three sounds into one-syllable words, including consonant blends and digraphs (e.g., /fl/ /in/ /d/ = find; /fl/ /a/ /t/ = flat).
- PO 8. Segment spoken phonemes contained in one-syllable words of two to five phoneme sounds into individual phoneme sounds (e.g., splat = /s/p/l/a/t/ using manipulatives to mark each phoneme).
# GRADE 1

## Concept 3: Phonics
Decode words, using knowledge of phonics, syllabication, and word parts.

PO 1. Decode regularly spelled two syllable words fluently by applying the most common letter-sound correspondences, including the sounds represented by:
   - Single letters (consonants and vowels),
   - Consonant blends (e.g., bl, st, tr),
   - Consonant digraphs (e.g., th, sh, ck), and
   - Vowel digraphs and diphthongs (e.g., ea, ie, ee).

PO 2. Use knowledge of inflectional endings (e.g., -s, -ed, -ing) to identify base words.

PO 3. Use knowledge of base words to identify compound words.

PO 4. Read words with common spelling patterns (e.g., -ite, -ill, -ate).

PO 5. Recognize high frequency words and irregular sight words.

PO 6. Read common contractions fluently (e.g., I’m, I’ll, can’t).

PO 7. Use knowledge of word order (syntax) and context to confirm decoding.

## Concept 4: Vocabulary
Acquire and use new vocabulary in relevant contexts.

PO 1. Recognize base words and their inflections (e.g., look, looks, looked, looking).

PO 2. Classify common words into conceptual categories (e.g., animals, foods, toys).

PO 3. Identify the words that comprise contractions (e.g., can’t=can not, it’s=it is, aren’t=are not).

PO 4. Recognize that two words can make a compound word (e.g., sailboat, football, popcorn).

## Concept 5: Fluency
Read fluently.

PO 1. Consistently read grade-level text with at least 90 percent accuracy.

PO 2. Read aloud with fluency in a manner that sounds like natural speech.

## Concept 6: Comprehension Strategies
Employ strategies to comprehend text.

PO 1. Predict what might happen next in a reading selection.

PO 2. Relate information and events in a reading selection to life experiences and life experiences to the text.
**Strand 2: Comprehending Literary Text**

Comprehending Literary Text identifies the comprehension strategies that are specific in the study of a variety of literature.

<table>
<thead>
<tr>
<th>Concept 1: Elements of Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify, analyze, and apply knowledge of the structures and elements of literature.</td>
</tr>
</tbody>
</table>

| PO 1. Identify the plot of a literary selection, heard or read. |
| PO 2. Describe characters (e.g., traits, roles, similarities) within a literary selection, heard or read. |
| PO 3. Sequence a series of events in a literary selection, heard or read. |
| PO 4. Determine whether a literary selection, heard or read, is realistic or fantasy. |
| PO 5. Participate (e.g., clapping, chanting, choral reading) in the reading of poetry by responding to the rhyme and rhythm. |

<table>
<thead>
<tr>
<th>Concept 2: Historical and Cultural Aspects of Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recognize and apply knowledge of the historical and cultural aspects of American, British, and world literature.</td>
</tr>
</tbody>
</table>

| PO 1. Compare events, characters and conflicts in literary selections from a variety of cultures to their experiences. |
Strand 3: Comprehending Informational Text

Comprehending Informational Text delineates specific and unique skills that are required to understand the wide array of informational text that is a part of our day-to-day experiences.

<table>
<thead>
<tr>
<th>Concept 1: Expository Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify, analyze, and apply knowledge of the purpose, structures, and elements of expository text.</td>
</tr>
</tbody>
</table>

PO 1. Identify the topic of expository text, heard or read.

PO 2. Answer questions (e.g., who, what, where, when, why, how) about expository text, heard or read.

PO 3. Identify organizational features (e.g., title, table of contents, heading, bold print) of expository text.

<table>
<thead>
<tr>
<th>Concept 2: Functional Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify, analyze, and apply knowledge of the purpose, structures, clarity, and relevancy of functional text.</td>
</tr>
</tbody>
</table>

PO 1. Follow a set of written multi-step directions with picture cues to assist.

PO 2. Determine whether a specific task is completed, by checking to make sure all the steps were followed in the right order, with picture cues to assist.

PO 3. State the meaning of specific signs (e.g., traffic, safety, warning signs).

<table>
<thead>
<tr>
<th>Concept 3: Persuasive Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explain basic elements of argument in text and their relationship to the author’s purpose and use of persuasive strategies.</td>
</tr>
</tbody>
</table>

(Grades 3-12)
Writing Standard Articulated by Grade Level 2004

Grade 1
Writing Standard Articulated by Grade Level

INTRODUCTION

The purpose of the Writing Standard Articulated by Grade Level is to equip students with the skills and knowledge needed to participate in society as literate citizens. The ability to communicate effectively in writing will be essential to their success in their communities and careers. Students may realize personal fulfillment and enjoyment as they learn to become proficient writers and continue as writers throughout their lives.

Writing is a complex skill that involves learning language and using it effectively to convey meaning through text. This standard recognizes that students’ abilities in writing develop from their earliest stages with phonetic spelling; to limited understanding of a certain genre; to the ability to produce conventional, coherent, unified documents. Their ideas are expressed in various forms, such as notes, lists, letters, journal writing, stories, web postings, instant messaging, essays, and reports. Effective writing may be evaluated by examining the use of ideas, organization, voice, word choice, sentence fluency, and conventions.

The Writing Standard Articulated by Grade Level will provide a clear delineation of what students need to know and be able to do at each grade level. This allows teachers to better plan instructional goals for students at any grade.

BACKGROUND

The state Board of Education adopted the Arizona Academic Standards in 1996 to define what Arizona’s students need to know and be able to do by the end of twelfth grade. Developed by committees comprised of educators, parents, students, and business and community leaders, these standards were written in grade-level clusters with benchmarks at grades 3, 5, 8, and high school.

RATIONALE

Requirements in the No Child Left Behind Act of 2001 (NCLB) and the standard practice of conducting periodic review of the state academic standards prompted the decision by the Arizona Department of Education to refine and articulate the academic standards for mathematics, reading, writing, and science by grade level. This refinement and articulation project was started in December 2003, and was completed in June 2004.
METHODOLOGY

Writing Standard refinement began in January 2004, expanding the standard to include performance objectives for all grade levels, kindergarten through twelfth grade. The writing articulation teams consisted of educators from around the state, representing large and small schools, rural and urban schools, and ethnic diversity. National consultants, university professors, and Arizona Department of Education staff advised the teams. The goal was to articulate and align the current academic standards by grade level (K-12).

The Writing Articulation Committee utilized resources and information from current, effective classroom practices, from other states’ standards, and from the National Council of Teachers of English, which promotes quality literacy instruction.

The articulation process included a restructuring of the Arizona Academic Content Writing Standards to better facilitate the alignment of performance objectives by grade level, while maintaining the content integrity.

Over a period of months, the articulation team and smaller subcommittees of the teams refined the documents. Reasonableness, usefulness, and appropriateness were the guidelines for the articulation process.

External reviews by nationally recognized consultants brought a broad perspective to the articulation process. Internal reviews by university and local experts provided additional validation.

Another important step in the project was the request for public comment. In May 2004, a draft of the Writing Standard Articulated by Grade Level, along with a survey to gather feedback, was posted on the Arizona Department of Education website. This provided the public with easy access to the documents, and the survey allowed reviewers a means for submitting comments. The public and all educators had the opportunity to submit comments and suggestions, either electronically or in writing, until the public review closing date of May 27, 2004. In May, three public hearings were held throughout the state, offering further opportunities for public input.

Based on public comment and online survey results, the articulation team met to determine necessary modifications to the standard. All public comments were given equal consideration.

Included in the standard articulation process the development of a rationale, glossary, and a crosswalk (correlation between the 1996 Writing Standard and revised, articulated standard). These additional documents were designed to assist educators with the transition from the 1996 Writing Standards to the 2004 Writing Standard Articulated by Grade Level.
**STRAND 1: WRITING PROCESS**

Research has established the major steps of the writing process. These steps are identified in the five concepts of this strand, each supported with specific performance objectives. While all steps are needed and used by effective writers as they compose text, different skills may be emphasized in individual assignments. These steps may be used recursively as a piece moves toward completion. Throughout the process, students should reflect on their own writing skills, set goals, and evaluate their own progress.

### Concept 1: Prewriting

- **Prewriting** includes using strategies to generate, plan, and organize ideas for specific purposes.

#### PO 1.
Generate ideas through prewriting activities (e.g., brainstorming, webbing, drawing, writer’s notebook, group discussion).

#### PO 2.
Draw a picture or storyboard about ideas generated.

#### PO 3.
Organize ideas using simple webs, maps, or lists.

#### PO 4.
Discuss the purpose for a writing piece.

#### PO 5.
Discuss who the intended audience of a writing piece will be.

### Concept 2: Drafting

- **Drafting** incorporates prewriting activities to create a first draft containing necessary elements for a specific purpose.

#### PO 1.
Write a draft (e.g., story, caption, letter, observations, message).

### Concept 3: Revising

- **Revising** includes evaluating and refining the rough draft for clarity and effectiveness. *(Ask: Does this draft say what you want it to say?)*

#### PO 1.
Reread original draft for clarity.

#### PO 2.
Add additional details with prompting.

### Concept 4: Editing

- **Editing** includes proofreading and correcting the draft for conventions.

#### PO 1.
Review the draft for errors in conventions, with prompting. *(See Strand 2)*

### Concept 5: Publishing

- **Publishing** includes formatting and presenting a final product for the intended audience.

#### PO 1.
Rewrite and illustrate selected pieces of writing for sharing with intended audience.

#### PO 2.
Write legibly.

*Italics denotes a repetition of a performance objective (learned in an earlier grade) that is to be applied to more complex writing.*

*The bulleted (lettered) items within a performance objective indicate specific content to be taught. Words shown in bold print are referenced in the glossary.*

Approved 6.28.04
Strand 2: Writing Components
This strand focuses on the elements of effective writing. Good writing instruction incorporates multiple performance objectives into an integrated experience of learning for the student. Throughout the process, students should reflect on their own writing skills, set goals, and evaluate their own progress. The order of the concepts and performance objectives is not intended to indicate a progression or hierarchy for writing instruction. Instructional activities may focus on just one concept or many.

<table>
<thead>
<tr>
<th>Concept 1: Ideas and Content</th>
<th>Writing is clear and focused, holding the reader’s attention throughout. Main ideas stand out and are developed by strong support and rich details. Purpose is accomplished.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Write <strong>stand-alone text</strong> that expresses a clear message.</td>
<td></td>
</tr>
<tr>
<td>PO 2. Incorporate details in pictures and text.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Organization</th>
<th>Organization addresses the structure of the writing and integrates the central meaning and patterns that hold the piece together.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Demonstrate sequencing or patterning in written text or storyboards.</td>
<td></td>
</tr>
<tr>
<td>PO 2. Show a sense of beginning (e.g., <em>This is a story of…, One day…, My favorite food…</em>).</td>
<td></td>
</tr>
<tr>
<td>PO 3. Write multiple sentences in an order that supports a main idea or story.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 3: Voice</th>
<th>Voice will vary according to the type of writing, but should be appropriately formal or casual, distant or personal, depending on the audience and purpose.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Create pictures and text that is expressive, individualistic, engaging, and lively.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 4: Word Choice</th>
<th>Word choice reflects the writer’s use of specific words and phrases to convey the intended message and employs a variety of words that are functional and appropriate to the audience and purpose.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO 1. Select words that convey a clear, general meaning.</td>
<td></td>
</tr>
<tr>
<td>PO 2. Use a variety of words, even if not spelled correctly, to convey the intended message.</td>
<td></td>
</tr>
<tr>
<td>PO 3. Use expressive or descriptive phrases and short sentences, beyond one- or two-word labels.</td>
<td></td>
</tr>
</tbody>
</table>

*Italics denotes a repetition of a performance objective (learned in an earlier grade) that is to be applied to more complex writing.*

*The bulleted (lettered) items within a performance objective indicate specific content to be taught. Words shown in bold print are referenced in the glossary.*

Approved 6.28.04
### Concept 5: Sentence Fluency
Fluency addresses the rhythm and flow of language. Sentences are strong and varied in structure and length.

**PO 1.** Write simple sentences.

### Concept 6: Conventions
Conventions addresses the mechanics of writing, including capitalization, punctuation, spelling, grammar and usage, and paragraph breaks.

**PO 1.** Incorporate conventions into own text, including:
- spacing between words
- spacing between lines
- consistent left-right and up-down orientation
- placement of title

**PO 2.** Use capital letters correctly for:
- the pronoun I
- the beginning of a sentence
- names

**PO 3.** Punctuate endings of sentences using:
- periods
- question marks
- exclamation points

**PO 4.** Spell **high frequency words** correctly.

**PO 5.** Use common spelling patterns (i.e., **onset** and **rimes**, **word families**, and simple **CVC words**) to spell words correctly.

**PO 6.** Use basic phonetic spelling of unfamiliar words to create readable text.

**PO 7.** Use resources (e.g., **environmental print**, **word walls**, dictionaries) to spell correctly.

**PO 8.** Use subject /verb agreement in simple sentences.

**PO 9.** Use the following parts of speech correctly in simple sentences:
- nouns
- action verbs

**PO 10.** Write own name on personal work.

*Italicics denote a repetition of a performance objective (learned in an earlier grade) that is to be applied to more complex writing.*

The bulleted (lettered) items within a performance objective indicate specific content to be taught. Words shown in bold print are referenced in the glossary.

Approved 6.28.04
Strand 3: Writing Applications

Writing skills particular to the modes listed here may be taught across the curriculum, although some modes may lend themselves more readily to specific content areas. It is imperative that students write in all content areas in order to increase their communication skills, and ultimately to improve their understanding of content area concepts. When appropriate, other content standards are referenced to show interdisciplinary connections.

<table>
<thead>
<tr>
<th>Concept 1: Expressive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expressive writing includes personal narratives, stories, poetry, songs, and dramatic pieces. Writing may be based on real or imagined events.</td>
</tr>
<tr>
<td><strong>PO 1.</strong> Write a <strong>narrative</strong> that includes:</td>
</tr>
<tr>
<td>a. a <strong>main idea</strong> based on real or imagined events</td>
</tr>
<tr>
<td>b. character(s)</td>
</tr>
<tr>
<td>c. a sequence of events</td>
</tr>
<tr>
<td><strong>PO 2.</strong> Participate in writing simple <strong>poetry</strong>, <strong>rhymes</strong>, <strong>songs</strong>, or <strong>chants</strong>.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Expository</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expository writing includes non-fiction writing that describes, explains, informs, or summarizes ideas and content. The writing supports a thesis based on research, observation, and/or experience.</td>
</tr>
<tr>
<td><strong>PO 1.</strong> Create expository texts (e.g., labels, lists, observations, journals) through drawing and/or writing.</td>
</tr>
<tr>
<td><strong>PO 2.</strong> Participate in creating simple summaries from informational texts, graphs, tables, or maps. (See M01-S2C1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 3: Functional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functional writing includes letters, memos, schedules, directories, signs, manuals, forms, and recipes. This writing provides specific directions or information related to real-world tasks.</td>
</tr>
<tr>
<td><strong>PO 1.</strong> Write a variety of functional text (e.g., classroom rules, letters, experiments, recipes, notes/messages, labels, directions, posters, graphs/tables). (See R01-S3C2; M01-S2C1)</td>
</tr>
<tr>
<td><strong>PO 2.</strong> Participate in writing communications, with teacher as scribe, including:</td>
</tr>
<tr>
<td>a. <strong>friendly letters</strong></td>
</tr>
<tr>
<td>b. <strong>thank-you notes</strong></td>
</tr>
</tbody>
</table>

*Italics denotes a repetition of a performance objective (learned in an earlier grade) that is to be applied to more complex writing.*

The bulleted (lettered) items within a performance objective indicate specific content to be taught.

Words shown in bold print are referenced in the glossary.

Approved 6.28.04
## Concept 4: Persuasive

Persuasive writing is used for the purpose of influencing the reader. The author presents an issue and expresses an opinion in order to convince an audience to agree with the opinion or to take a particular action.

(Grades 3-HS)

## Concept 5: Literary Response

Literary response is the writer's reaction to a literary selection. The response includes the writer’s interpretation, analysis, opinion, and/or feelings about the piece of literature and selected elements within it.

**PO 1.** Write a response to a literature selection identifies the:
- a. character(s)
- b. **setting**
- c. sequence of events
- d. main idea

(See R01-S2C1)

**PO 2.** Participate in a group response to a given piece of literature that connects:
- a. text to self (personal connection)
- b. text to world (social connection)
- c. text to text (compare within multiple texts)

(See R01-S2C1)

## Concept 6: Research

Research writing is a process in which the writer identifies a topic or question to be answered. The writer locates and evaluates information about the topic or question, and then organizes, summarizes, and synthesizes the information into a finished product.

**PO 1.** Write a simple report with a title and three facts, using informational sources.
Language Arts Standards 1996

Standard 3: Listening and Speaking
Standard 4: Viewing and Presenting

Foundations (Grades 1-3)
Arizona’s students must be able to communicate effectively in their schools and communities. The communication skills of reading, writing, listening, speaking, viewing and presenting form the core of language and literacy. The ultimate purpose of the following language arts standards is to ensure that all students be offered the opportunities, the encouragement and the vision to develop the language skills they need to pursue lifelong goals, including finding personal enrichment and participating as informed members of society. The language art standards presented in this document are organized into four areas:

- Reading
- Writing
- Listening and Speaking
- Viewing and Presenting

Reading, writing, listening and speaking are commonly recognized as language skills. Visual communication skills have long been applied in language arts classrooms through the use of media and visual resources. However, with the increase in the availability and variety of media, students are faced with numerous demands for interpreting and creating visual messages. In this document, viewing (interpreting visual messages) and presenting (creating visual messages) are the two aspects of visual communication. Resources available for teaching visual communication range from charts, graphs and photographs to the most sophisticated electronic media.

The interdependency of reading, writing, listening, speaking, viewing and presenting requires that language arts skills be integrated in two ways:

- Within language art
- Across other content areas

Students use language skills to understand academic subject matter and to enrich their lives. They develop literacy at different rates and in a variety of ways. Consequently, interdependent language arts skills and processes should be taught in a variety of learning situations.

Assessment of language arts skills and processes should be comprehensive, authentic and performance based. Multiple assessment methods should be used to evaluate a student’s knowledge base and the application of reading, writing, listening, speaking, viewing and presenting. Assessment tasks should reflect those experiences encountered in the home, community and workplace. Issues concerning assessment of specific populations pose complex questions with no simple solutions. As programs and assessments are developed, these issues must be resolved to enable all students to meet the standards.

In conclusion, the standards in the language arts framework form the core of every student’s ability to function effectively in society. Students will need a wide repertoire of communication strategies and skills to succeed as learners, citizens, workers and fulfilled individuals in the 21st century.
STANDARD 3: LISTENING AND SPEAKING
Students effectively listen and speak in situations that serve different purposes and involve a variety of audiences.

- LS-F1. Use effective vocabulary and logical organization to relate or summarize ideas, events and other information
- LS-F2. Give and follow multiple-step directions
- LS-F3. Prepare and deliver information by generating topics; identifying the audience; and organizing ideas, facts or opinions for a variety of speaking purposes such as giving directions, relating personal experiences, telling a story or presenting a report

STANDARD 4: VIEWING AND PRESENTING
Students use a variety of visual media and resources to gather, evaluate and synthesize information and to communicate with others.

- VP-F1. Recognize different types of visual media
- VP-F2. Plan and present a report, using two or more visual media
- VP-F3. Access, view and respond to visual forms such as computer programs, videos, artifacts, drawings, pictures and collages
- VP-F4. Interpret visual clues in cartoons, graphs, tables and charts that enhance the comprehension of text
Mathematics Standard Articulated by Grade Level 2008

Grade 1
Mathematics Standard Articulated by Grade Level

The Arizona Mathematics Standard Articulated by Grade Level describes a connected body of mathematical understandings and competencies that provide a foundation for all students. This standard is coherent, focused on important mathematics, and well articulated across the grades. Concepts and skills that are critical to the understanding of important processes and relationships are emphasized.

The need to understand and use a variety of mathematical strategies in multiple contextual situations has never been greater. Utilization of mathematics continues to increase in all aspects of everyday life, as a part of cultural heritage, in the workplace, and in scientific and technical communities. Today’s changing world will offer enhanced opportunities and options for those who thoroughly understand mathematics.

Communication, problem solving, reasoning and proof, connections, and representation are the process standards as described in the Principles and Standards for School Mathematics from the National Council of Teachers of Mathematics (NCTM). These process standards are interwoven within each of the content strands of the Arizona Mathematics Standard and are explicitly connected to the teaching of specific performance objectives in the grade level documents. The process standards emphasize ways to acquire and apply the content knowledge. Mathematics education should enable students to fulfill personal ambitions and career goals in an informational age. In the NCTM Principles and Standards document it asks us to “Imagine a classroom, a school, or a school district where all students have access to high-quality, engaging mathematics instruction. There are ambitious expectations for all, with accommodations for those who need it”. The Arizona Mathematics Standard Articulated by Grade Level is intended to facilitate this vision.

BACKGROUND

The State Board of Education adopted the Mathematics Standard Articulated by Grade Level in 2003 to define what Arizona students need to know and be able to do at each grade level through the end of tenth grade. Developed by a committee comprised of a diverse group of educators, this standard was written in response to the requirements of No Child Left Behind Act of 2001 (NCLB).

RATIONALE

In 2007 the State Board of Education began the process for increasing the high school graduation requirement in mathematics from two to four years. This requirement was approved in December 2007 effective with the graduating class of 2013. This increase, along with the need to complete a periodic review of the standard, prompted the Arizona Department of Education to initiate the process of refining and rearticulating the Mathematics Standard. This refinement and articulation project began in June 2007 and was completed in June 2008.

METHODOLOGY

Work teams representing populations from around the state were formed. These groupings were comprised of large and small schools, rural and urban schools, and were ethnically diverse. Included were classroom teachers, curriculum directors, mathematics teacher leaders, Career and Technical Education teachers, second-career teachers, and university/community college faculty. The goal was to revise and articulate the Mathematics Standard K-12 to align with the increased state requirement of four years of high school mathematics.

The mathematics revision teams utilized the National Council of Teachers of Mathematics *Principles and Standards* as a reference in the development of the revised Mathematics Standard. Additionally, the findings and recommendations from the National Mathematics Advisory Panel, the American Diploma Project Benchmarks, the National Assessment of Educational Progress Framework, the Curriculum Focal Points, the Framework for 21st Century Skills, and other states’ frameworks were used as guiding documents.

The revision grade level teams created draft documents with performance objectives articulated to the appropriate grade levels. Over a period of months, these teams and smaller sub-committees of teams refined the draft documents based on clarity, cohesiveness, and comprehensiveness. Reasonableness, usefulness, and appropriateness were key guidelines for the articulation process. The measurability of each performance objective was also a consideration.

External reviews by nationally recognized consultants brought a broader perspective to the refinement process. Another important step in the process was the gathering of public comment. In March 2008, drafts of the Revised Mathematics Standard Articulated by Grade Level, along with a survey to gather feedback, were posted on the Arizona Department of Education website. This provided the public with easy access to the documents, and a survey allowed reviewers a means for submitting comments. Also, crosswalks were created from the Draft 2008 Mathematics Standard to the 2003 Mathematics Standard and were posted on the website. The public had the opportunity to submit comments and suggestions, either electronically or in writing, until the survey closing date of March 28, 2008. Additionally, five public hearings were held in March throughout the state offering further opportunities for public feedback.

After all the public comments were collected, organized, and categorized by grade level and topic, the revision teams met to determine what modifications to the standard document would be appropriate. Upon completion of the revision work, crosswalks were created to assist educators with the transition from the 2003 Arizona Mathematics Standard Articulated by Grade Level to the revised 2008 Mathematics Standard.

ORGANIZATION OF THE MATHEMATICS STANDARD

The Mathematics Standard Articulated by Grade Level is divided into five main strands:
- Number and Operations
- Data Analysis, Probability, and Discrete Mathematics
- Patterns, Algebra, and Functions
- Geometry and Measurement
- Structure and Logic.
Each strand is divided into concepts that broadly define the skills and knowledge that students are expected to know and be able to do. Under each concept are performance objectives (POs) that more specifically delineate the ideas to be taught and learned.

The comprehensive document (K-12) is designed so that teachers can read the performance objectives across grade levels to incorporate learning from previous, current, and future grade levels. The standard is separated into two separate documents due to the addition of College Work Readiness (grades 11-12). The first document spans grade levels K through 6, and the second document covers grades 7 through College Work Readiness. Viewing the Mathematics Standard document from left to right helps the teacher to see the mathematics continuum across the grade levels. There is a purposeful clustering of performance objectives in order to emphasize certain key understandings. Every effort was made to eliminate repetitions. The intent was to build on the learning in previous grade levels, connect important ideas, and highlight new content each year. This coherency supports students in developing new understandings and skills. Looking down each individual column enables a teacher to see the performance objectives that students are expected to know and be able to do at any grade level.

This organization does not imply that the teaching and learning of mathematics should be fragmented or compartmentalized. Mathematics is a highly interconnected discipline; important mathematical ideas from all five mathematics strands need to be continuously integrated as needed to make meaning and connections to other concepts and performance objectives. In each grade level document, these connections are highlighted.

The order of the strands, concepts, and performance objectives (POs) in the Mathematics Standard document are not intended to be a checklist for mathematics instruction. Mathematical concepts develop with a spiraling of ideas/skills that are interconnected and dependent on each other, and this is reflected in the standard document. Effective instruction often incorporates several performance objectives into an integrated experience of learning for the student. The content in College Work Readiness (grades 11-12) is a new addition to the Mathematics Standard. This content is separated into the five main strands. Performance objectives highlighted in italics in the document have been identified as core to an Algebra II course. As districts/schools create additional high school mathematics courses, they may select from the comprehensive set of performance objectives contained within the five strands.

New to the 2008 Mathematics Standard is the development of more comprehensive grade level documents. The format of these documents will support the implementation of the revised standard. After each concept statement, there are summary expectations appropriate for that specific grade level. These statements provide a roadmap for instruction. Teachers will notice that there are now three columns of information. The first column lists the performance objectives with accompanying strand/concept and content area connections. The middle column highlights explicit connections to Strand 5, Concept 2 performance objectives. These performance objectives are grounded in the core processes of logic, reasoning, problem-solving and proof. The third column provides instructional support to teachers in the form of explanation and examples.
ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Every student should understand and use all concepts and skills from the previous grade levels. The standard is designed so that new learning builds on preceding skills. Communication, Problem-solving, Reasoning & Proof, Connections, and Representation are the process standards that are embedded throughout the teaching and learning of all mathematical strands.

**Strand 1: Number and Operations**
Number sense is the understanding of numbers and how they relate to each other and how they are used in specific context or real-world application. It includes an awareness of the different ways in which numbers are used, such as counting, measuring, labeling, and locating. It includes an awareness of the different types of numbers such as, whole numbers, integers, fractions, and decimals and the relationships between them and when each is most useful. Number sense includes an understanding of the size of numbers, so that students should be able to recognize that the volume of their room is closer to 1,000 than 10,000 cubic feet. Students develop a sense of what numbers are, i.e., to use numbers and number relationships to acquire basic facts, to solve a wide variety of real-world problems, and to estimate to determine the reasonableness of results.

**Concept 1: Number Sense**
Understand and apply numbers, ways of representing numbers, and the relationships among numbers and different number systems.

In Grade 1, students continue to work with whole numbers to quantify objects. They consider how numbers relate to one another. As they expand the set of numbers they work with, students start to develop critical concepts of ones and tens that introduce them to place value in our base ten system. An understanding of how ones and tens relate to each other allows students to begin adding and subtracting two-digit numbers.

<table>
<thead>
<tr>
<th><strong>Performance Objectives</strong></th>
<th><strong>Process Integration</strong></th>
<th><strong>Explanations and Examples</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Students are expected to:</strong></td>
<td><strong>M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.</strong></td>
<td>There is a strong connection between this performance objective and recording equivalent forms of whole numbers (M01-S3C3-01). Teaching these ideas concurrently is critical.</td>
</tr>
<tr>
<td>PO 1. Express whole numbers 0 to 100, in groups of tens and ones using and connecting multiple representations. Connections: M01-S1C1-02, M01-S1C1-04, M01-S1C2-02, M01-S1C3-01, M01-S2C1-01, M01-S2C1-02, M01-S2C3-01, M01-S3C1-02, M01-S3C3-01, M01-S4C4-01, M01-S4C4-02</td>
<td></td>
<td>Use models, pictures, number lines, spoken and written words, and expanded form.</td>
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<td>Continued on next page</td>
</tr>
</tbody>
</table>

The bulleted items within a performance objective indicate the specific content to be taught.

Explanations and Examples Updated 1.19.09
Grade 1
Arizona Department of Education: Standards and Assessment Division
Approved 6.24.08
# ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
## GRADE 1

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<tbody>
<tr>
<td>Students are expected to:</td>
<td></td>
<td>Example:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Twenty-seven objects can be grouped as 2 tens and 7 ones, regrouped as 1 ten and 17 ones, and regrouped again as 27 ones. The total (27) remains constant. This type of grouping lays a foundation for future work with addition and subtraction of two-digit numbers, where renaming 27 as 10 + 17 may be necessary.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$27 = 10 + 10 + 7$ $27 = 10 + 17$ $27$</td>
</tr>
<tr>
<td>PO 2. Count forward to 100 and backward from 100 by 1s and 10s using different starting points, and count forward to 100 by 2s and 5s. Connections: M01-S1C1-01, M01-S1C2-02, M01-S1C3-01, M01-S2C1-01, M01-S2C1-02, M01-S3C1-02, M01-S4C4-01</td>
<td>M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.</td>
<td>Objects, number lines, and hundred charts are examples of models which can be used to illustrate skip counting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Examples:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- “Start at 93. Count backward. I’ll tell you when to stop.” [Stop when the student has counted backward ten numbers.]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- “Start at 24. Count up by 10s. I’ll tell you when to stop.” [Stop when the student has counted to 94 by 10s.]</td>
</tr>
<tr>
<td>PO 3. Identify numbers which are 10 more or less than a given number to 90. Connections: M01-S1C2-02, M01-S3C1-02</td>
<td>M01-S5C2-05. Explain and clarify mathematical thinking.</td>
<td>Examples:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 10 more than 43 is 53 (one more 10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 10 less than 43 is 33 (one less 10)</td>
</tr>
</tbody>
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Explanations and Examples Updated 1.19.09

Arizona Department of Education: Standards and Assessment Division

Approved 6.24.08
### ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
#### GRADE 1

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<tr>
<td>PO 4. Compare and order whole numbers through 100 by applying the concepts of place value.</td>
<td>M01-S5C2-05. Explain and clarify mathematical thinking.</td>
<td>There is a strong connection between this performance objective and representing numbers (M01-S3C3-02). Teaching these ideas concurrently is critical.</td>
</tr>
<tr>
<td>Connections: M01-S1C1-01, M01-S1C3-01, M01-S2C1-02, M01-S3C3-02</td>
<td></td>
<td>Comparative language includes but is not limited to more than, less than, greater than, most, greatest, least, same as, equal to. The symbols include = and ≠.</td>
</tr>
<tr>
<td>PO 5. Recognize and compare ordinal numbers, first through tenth.</td>
<td>M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.</td>
<td>To compare two-digit numbers, students first attend to the number of tens, then, if necessary, to the number of ones. Students use models, pictures, number lines, and spoken or written words to compare or order numbers.</td>
</tr>
<tr>
<td>Connections: M01-S4C4-03</td>
<td></td>
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</tbody>
</table>
ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Strand 1: Number and Operations
Concept 2: Numerical Operations

Understand and apply numerical operations and their relationship to one another.

In Grade 1, students learn how to add and subtract using multiple strategies. They learn when to add and subtract and how addition and subtraction relate to each other. Understanding the relationship between addition and subtraction is an important part of learning these operations efficiently and accurately.

### Performance Objectives

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<tr>
<th>Students are expected to:</th>
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<tbody>
<tr>
<td>PO 1. Solve contextual problems using multiple representations for addition and subtraction facts.</td>
<td>M01-S5C2-01. Identify the question(s) asked and any other questions that need to be answered in order to find a solution.</td>
<td>There is a strong connection between this performance objective and representing word problems requiring addition or subtraction facts in an equation (M01-S3C3-03). Teaching these ideas concurrently is critical.</td>
</tr>
<tr>
<td></td>
<td>M01-S5C2-02. Identify the given information that can be used to find a solution.</td>
<td>Contextual problems that are closely connected to students’ lives should be used often to develop fluency with addition facts through 10 + 10 and the related subtraction facts.</td>
</tr>
<tr>
<td></td>
<td>M01-S5C2-03. Select from a variety of problem-solving strategies and use one or more strategies to arrive at a solution.</td>
<td>Examples:</td>
</tr>
<tr>
<td></td>
<td>M01-S5C2-05. Explain and clarify mathematical thinking.</td>
<td>Note that in contextual problems subtraction as “take-away” is less complex for students than subtraction as “comparison.”</td>
</tr>
<tr>
<td></td>
<td>M01-S5C2-06. Determine whether a solution is reasonable.</td>
<td>• Take-away example: Abel has 9 balls. He gave 3 to Susan. How many balls does Abel have now?</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Comparison example: Abel has 9 balls. Susan has 3 balls. How many more balls does Abel have than Susan?</td>
</tr>
</tbody>
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Explanations and Examples Updated 1.19.09

Arizona Department of Education: Standards and Assessment Division

Approved 6.24.08
# ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
## GRADE 1

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<td>Students are expected to:</td>
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</table>
| PO 2. Demonstrate addition and subtraction of numbers that total less than 100 by using various representations that connect to place value concepts. Connections: M01-S1C1-01, M01-S1C1-02, M01-S1C1-03, M01-S1C2-01, M01-S1C2-05, M01-S2C1-02, M01-S3C3-01, M01-S3C3-02, M01-S3C3-03 | M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols. | To develop grouping concepts, students need many opportunities to add groups of 10s to any 2 digit number, add numbers that make groups of 10, and subtract groups of 10 from a 2 digit number. Examples:  
- 23 + 40, count up by 10s, to get 33, 43, 53, 63  
- 24 + 6, 4 + 6 =10 so now there are 3 tens or 30  
- 57 – 30, 5 tens take-away 3 tens leaves 2 tens so the answer is 2 tens and 7 or 27  
Students use objects, pictures and explore several strategies to solve problems such as 32 + 45 and 23 + 38. Note: The intent of this performance objective is not to introduce traditional algorithms or rules. |
| PO 3. Develop and use multiple strategies for addition facts to 10+10 and their related subtraction facts. Connections: M01-S1C2-01, M01-S1C2-04, M01-S1C2-05, M01-S2C1-02, M01-S3C1-02, M01-S3C3-01, M01-S3C3-02, M01-S3C3-03 | M01-S5C2-03. Select from a variety of problem-solving strategies and use one or more strategies to arrive at a solution. | Students use the following strategies to understand addition and subtraction facts:  
- Acting out the problem  
- Using objects  
- Drawing pictures  
- Using 5 and 10 frames  
- Using number lines  
- Using 100 charts  
Continued on next page |
## ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL

### GRADE 1

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<tbody>
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<td><strong>Students are expected to:</strong></td>
<td></td>
<td>The following Grade 1 strategies will prepare students to develop quick recall of addition and subtraction facts in Grade 2:</td>
</tr>
<tr>
<td></td>
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<td>- 0, 1 or 2 more/less than</td>
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<tr>
<td></td>
<td></td>
<td>- Counting on</td>
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<tr>
<td></td>
<td></td>
<td>- Counting back</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Making tens</td>
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<td></td>
<td></td>
<td>- Adding nine using &quot;plus 10, minus 1”</td>
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<tr>
<td></td>
<td></td>
<td>- Using doubles</td>
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<td>- Using near doubles (Ex: 5 + 6 is 5 + 5 plus 1 more)</td>
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<tr>
<td></td>
<td></td>
<td>- Subtracting by counting up (Ex: 8 – 3. count up from 3, that is, 4, 5, 6, 7, 8)</td>
</tr>
<tr>
<td>PO 4. Create word problems based on addition and subtraction facts.</td>
<td>M01-S5C2-01. Identify the question(s) asked and any other questions that need to be answered in order to find a solution.</td>
<td>There is a strong connection between this performance objective and representing word problems requiring addition or subtraction facts in an equation (M01-S3C3-03). Teaching these ideas concurrently is critical.</td>
</tr>
<tr>
<td>Connections: M01-S1C2-01, M01-S1C2-03, M01-S1C3-01, M01-S2C1-02, M01-S3C3-03</td>
<td>M01-S5C2-02. Identify the given information that can be used to find a solution.</td>
<td>Students use addition facts up to 10 + 10 and the related subtraction facts to create their word problems.</td>
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<tr>
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<td>Example:</td>
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<td>For the equation 7 + ? = 10, a possible story is: Jeff had 7 marbles in his pocket and some marbles in his drawer. He had 10 marbles altogether. How many marbles did he have in his drawer? Show your answer in pictures or words or using objects.</td>
</tr>
<tr>
<td>PO 5. Apply properties to solve addition/subtraction problems</td>
<td>M01-S5C2-05. Explain and clarify mathematical thinking.</td>
<td>Students should understand the important ideas of these properties.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 = 12 + 0</td>
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<tr>
<td></td>
<td></td>
<td>16 – 0 = 16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 + 4 = 4 + 3</td>
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<tr>
<td></td>
<td></td>
<td>Understanding the meaning of the equal sign as &quot;the same quantity as” is foundational to these concepts</td>
</tr>
<tr>
<td>Connections: M01-S1C2-01, M01-S1C2-02, M01-S1C2-03, M01-S3C3-01, M01-S3C3-03</td>
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</tbody>
</table>
Strand 1: Number and Operations
Concept 3: Estimation

Use estimation strategies reasonably and fluently while integrating content from each of the other strands.

In Grade 1, students use five, ten, and twenty as benchmark numbers to develop their sense of quantity as well as to compare numbers.

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<tr>
<td>Students are expected to:</td>
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</tbody>
</table>
| PO 1. Use estimation to determine if sums are more or less than 5, more or less than 10, or more or less than 20. | M01-S5C2-03. Select from a variety of problem-solving strategies and use one or more strategies to arrive at a solution. M01-S5C2-06. Determine whether a solution is reasonable. | Estimating quantities helps students further develop their sense of number as well as their ability to compare and order numbers. Experiences of estimating sums without computing are important because it requires students to examine the relationships between the numbers. Examples:  
  - 6 + 6 is more than 10 because 5 + 5 is 10  
  - 13 + 16 is more than 20 because there are more than 2 tens (extension: there are almost 3 tens) |
Strand 2: Data Analysis, Probability, and Discrete Mathematics
This strand requires students to use data collection, data analysis, statistics, probability, systematic listing and counting, and the study of graphs. This prepares students for the study of discrete functions as well as to make valid inferences, decisions, and arguments. Discrete mathematics is a branch of mathematics that is widely used in business and industry. Combinatorics is the mathematics of systematic counting. Vertex-edge graphs are used to model and solve problems involving paths, networks, and relationships among a finite number of objects.

Concept 1: Data Analysis (Statistics)

Understand and apply data collection, organization, and representation to analyze and sort data.

In Grade 1, students are introduced to basic ideas of data analysis by collecting and visually representing data. These ideas reinforce their understanding of whole numbers and addition and subtraction as students ask and answer questions about the data. As they move through the grades, students continue to apply what they learn about data, making mathematics relevant and connecting numbers to applied situations.

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<tr>
<td><strong>Students are expected to:</strong></td>
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</tr>
<tr>
<td>PO 1. Collect, record, organize, and display data using tally charts or pictographs.</td>
<td>M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.</td>
<td>Students work with pictographs that have pictures representing a quantity of one.</td>
</tr>
<tr>
<td>Connections: M01-S1C1-01, M01-S1C1-02, M01-S2C1-02, SC01-S1C2-04, SC01-S1C4-01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO 2. Ask and answer questions by interpreting simple displays of data, including tally charts or pictographs.</td>
<td>M01-S5C2-01. Identify the question(s) asked and any other questions that need to be answered in order to find a solution. M01-S5C2-02. Identify the given information that can be used to find a solution.</td>
<td>The graphical representations include those listed in M01-S2C1-01 and all other applicable representations taught in previous grade levels. The data chosen or questions asked give students opportunities to reinforce many performance objectives such as addition and subtraction facts, counting by fives and tens, identifying ten more and ten less, and using comparative language. Students answer questions as well as compose their own questions based on the data, charts, or graphs.</td>
</tr>
<tr>
<td>Connections: M01-S1C1-01, M01-S1C1-02, M01-S1C1-04, M01-S1C2-01, M01-S1C2-02, M01-S1C2-03, M01-S1C2-04, M01-S2C1-01, SC01-S1C4-01</td>
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</tbody>
</table>
Strand 2: Data Analysis, Probability, and Discrete Mathematics  
Concept 2: Probability  
Understand and apply the basic concepts of probability.  
In Grade 1, there are no performance objectives in this concept. Performance objectives begin in Grade 4.  

Strand 2: Data Analysis, Probability, and Discrete Mathematics  
Concept 3: Systematic Listing and Counting  
Understand and demonstrate the systematic listing and counting of possible outcomes.  
In Grade 1, students sort objects using a Venn diagram and describe how they sorted them.  

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<td>Students are expected to:</td>
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<tr>
<td>PO 1. Use Venn diagrams to sort, classify, and count objects and justify the sorting rule.</td>
<td>M01-S5C2-05. Explain and clarify mathematical thinking.</td>
<td>Initially, first graders are introduced to Venn diagrams through sorting objects into disjoint sets (i.e., non-intersecting Venn diagrams). After completing their sort, they explain their sorting rule, draw a circle around each group, and label each group with a word that describes what the objects have in common. They also talk about what attributes are “different” and if any objects possess both attributes (in the disjoint case, no objects will have possess both attributes). Children should also be given a Venn diagram of two non-intersecting groups that are labeled (for example, BIG and YELLOW) where they need to draw examples of objects that can go inside the circles and outside the circles. Perhaps they might draw a house inside the circle labeled BIG, a banana inside the circle labeled YELLOW, and a cucumber outside of the circles because it is both NOT BIG and NOT YELLOW.</td>
</tr>
</tbody>
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Explanations and Examples Updated 1.19.09  
Arizona Department of Education: Standards and Assessment Division  
Approved 6.24.08
### ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL

**GRADE 1**

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<tr>
<td>Students are expected to:</td>
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<td>By the end of the school year, students are introduced to the idea that some objects may share both attributes and explore sorting situations in Venn diagrams with one intersecting region. Extending the BIG and YELLOW example, students might draw a school bus inside the region to represent an object that is both BIG and YELLOW. They should use words to describe the objects found in all four regions: 1) BIG, 2) YELLOW, 3) BIG and YELLOW, and 4) NOT BIG and NOT YELLOW.</td>
</tr>
</tbody>
</table>

### Strand 2: Data Analysis, Probability, and Discrete Mathematics

**Concept 4: Vertex-Edge Graphs**

Understand and apply vertex-edge graphs.

In Grade 1, there are no performance objectives in this concept. Performance objectives begin in Grade 2.

The bulleted items within a performance objective indicate the specific content to be taught.
ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Strand 3: Patterns, Algebra, and Functions
Patterns occur everywhere in nature. Algebraic methods are used to explore, model and describe patterns, relationships, and functions involving numbers, shapes, iteration, recursion, and graphs within a variety of real-world problem solving situations. Iteration and recursion are used to model sequential, step-by-step change. Algebra emphasizes relationships among quantities, including functions, ways of representing mathematical relationships, and the analysis of change.

Concept 1: Patterns
Identify patterns and apply pattern recognition to reason mathematically while integrating content from each of the other strands.

In Grade 1, students will continue to develop their understanding of repeating and growing patterns. Repeating patterns will be more sophisticated than in kindergarten. Students will notice that growing patterns involve addition and subtraction, and they will work with other types of patterns as they learn to make generalizations about what they observe.

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<tr>
<td>Students are expected to:</td>
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</tr>
<tr>
<td>PO 1. Recognize, describe, extend, create, and record repeating patterns. Connections: M01-S4C1-01</td>
<td>M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.</td>
<td>Repeating patterns repeat the same series over and over again. Oral or physical patterns as well as patterns produced with objects or symbols can be used. Example: The following pattern repeats ABCB over and over again: ABCB, ABCB, ABCB, ABCB, ABCB, …</td>
</tr>
<tr>
<td>PO 2. Recognize, describe, extend, create, and record growing patterns. Connections: M01-S1C1-01, M01-S1C1-02, M01-S1C1-03, M01-S1C2-01, M01-S1C2-03</td>
<td>M01-S5C2-03. Select from a variety of problem-solving strategies and use one or more strategies to arrive at a solution. M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.</td>
<td>Growing patterns repeat the same process over and over again. Students use objects, pictures or numbers. Students look for growing patterns in a hundreds chart. Growing patterns can be used to reinforce addition and subtraction facts. Example: Adding 5 over and over again results in a number pattern of 5, 10, 15, 20, 25, 30, 35, 40, … Adding 5 over and over can also be seen when counting the points on multiple stars or fingers on multiple hands.</td>
</tr>
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<td>Students are expected to:</td>
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<td>Students recognize when patterns are the same even though the terms in the sequences may be different.</td>
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<tr>
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<td></td>
<td>Example:</td>
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<tr>
<td></td>
<td></td>
<td>• Red, blue; red, blue, blue; red, blue, blue, blue; … and AB, ABB, ABBB, … have the same pattern even though the terms are different.</td>
</tr>
</tbody>
</table>

### Strand 3: Patterns, Algebra, and Functions

#### Concept 2: Functions and Relationships

Describe and model functions and their relationships.

In Grade 1, there are no performance objectives in this concept. Performance objectives begin in Grade 2.
Strand 3: Patterns, Algebra, and Functions  
Concept 3: Algebraic Representations

Represent and analyze mathematical situations and structures using algebraic representations.

In Grade 1, students work with and create number sentences in contextual situations as they construct equivalent forms of whole numbers and explore equations in their many forms.

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<td><strong>Students are expected to:</strong></td>
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</table>
| PO 1. Record equivalent forms of whole numbers to 100 by constructing models and using numbers. | M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols. | There is a strong connection to representing numbers (M01-S1C1-01). Teaching these ideas concurrently is critical. Example:  
  - Students can be asked to make 45 in as many ways as possible. Some possibilities are:  
    - 4 tens and a 5, recording the expression, $10 + 10 + 10 + 10 + 5$  
    - 2 groups of 20 and a 5, recording the expression, $20 + 20 + 5$  
    - Counting by 5s |

Connections: M01-S1C1-01, M01-S1C2-02, M01-S1C2-03, M01-S1C2-05, M01-S3C3-02 |

| PO 2. Compare expressions using spoken words and the symbols = and ≠. | M01-S5C2-05. Explain and clarify mathematical thinking. | There is a strong connection to comparing and ordering numbers (M01-S1C1-04). Teaching these ideas concurrently is critical.  
Interchanging the language of “equal to” and “the same as” as well as “not equal to” and “not the same as” will help students grasp the meaning of these symbols. Students need to understand that equality means the same quantity as. This idea is critical if students are to avoid common pitfalls in later work with numbers and operations, where they may otherwise fall into habits of thinking that the answer follows the equal sign. Examples:  
  - 7 = 8 – 1; 5 + 3 is the same amount as 10 – 2.  
  - Two expressions, 3 + 4 and 5 – 2 can be compared resulting in “3 + 4 is not equal to 5 – 2.” |

Connections: M01-S1C1-04, M01-S1C2-02, M01-S1C2-03, M01-S3C3-01 |
### Performance Objectives

**PO 3.** Represent a word problem requiring addition or subtraction facts using an equation.

**Connections:** M01-S1C2-01, M01-S1C2-02, M01-S1C2-03, M01-S1C2-04, M01-S1C2-05

### Process Integration

M01-S5C2-04. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.

### Explanations and Examples

There is a strong connection to solving and creating contextual problems (M01-S1C2-01 and M01-S1C2-05). Teaching these ideas concurrently is critical.

Equation forms include:
- \( a + b = \)
- \( c - a = \)
- \( c = a + \)
- \( c - = b \)

**Example:**
- Write a word problem that matches the equation: \( 8 + \_ = 10 \) (\( a + \_ = c \)). Sample answer: Tom has 8 cars. His brother gave him some more. He now has 10 cars. How many cars did his brother give him?

### Strand 3: Patterns, Algebra, and Functions

**Concept 4: Analysis of Change**

Analyze how changing the values of one quantity corresponds to change in the values of another quantity.

In Grade 1, there are no performance objectives in this concept. Performance objectives begin in Grade 4.
Strand 4: Geometry and Measurement
Geometry is a natural place for the development of students' reasoning, higher thinking, and justification skills culminating in work with proofs. Geometric modeling and spatial reasoning offer ways to interpret and describe physical environments and can be important tools in problem solving. Students use geometric methods, properties and relationships, transformations, and coordinate geometry as a means to recognize, draw, describe, connect, analyze, and measure shapes and representations in the physical world. Measurement is the assignment of a numerical value to an attribute of an object, such as the length of a pencil. At more sophisticated levels, measurement involves assigning a number to a characteristic of a situation, as is done by the consumer price index. A major emphasis in this strand is becoming familiar with the units and processes that are used in measuring attributes.

Concept 1: Geometric Properties
Analyse the attributes and properties of 2- and 3- dimensional figures and develop mathematical arguments about their relationships.

In Grade 1, students expand their knowledge of two-dimensional geometric figures by sorting, comparing, and contrasting them according to their characteristics. They learn important mathematical vocabulary used to name the figures. Students work with composite shapes made out of basic two-dimensional figures as they continue to develop their spatial sense of shapes, objects, and the world around them.

<table>
<thead>
<tr>
<th>Performance Objectives</th>
<th>Process Integration</th>
<th>Explanations and Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students are expected to:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO 1. Identify and draw 2-dimensional geometric figures based on given attributes regardless of size or orientation.</td>
<td>M01-S5C2-02. Identify the given information that can be used to find a solution.</td>
<td>Students identify, describe, and draw figures based on given attributes such as number of sides, number of vertices, etc. Figures include circles, triangles, and rectangles (including squares). Figures should also include other quadrilaterals, but students do not necessarily need to name them. By definition, a square is a special kind of rectangle. Although most first graders do not yet understand the hierarchy of shapes, it is good to teach with this idea in mind. In addition, a square turned on a vertex is still a square (not a diamond). Triangles should appear in many positions and orientations and should not all be equilateral or isosceles.</td>
</tr>
</tbody>
</table>

The bulleted items within a performance objective indicate the specific content to be taught.
## ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL

### GRADE 1

<table>
<thead>
<tr>
<th><strong>Performance Objectives</strong></th>
<th><strong>Process Integration</strong></th>
<th><strong>Explanations and Examples</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Students are expected to:</strong></td>
<td><strong>M01-S5C2-05. Explain and clarify mathematical thinking.</strong></td>
<td><strong>Students may sort a collection of two-dimensional figures into those that have straight sides and those that do not. This type of sorting differs from the color, size, and texture sorting commonly done in kindergarten.</strong></td>
</tr>
</tbody>
</table>

**PO 2.** Compare and sort basic 2-dimensional figures (including irregular figures) using attributes and explain the reasoning for the sorting.

*Connections: M01-S2C3-01*

**PO 3.** Describe the results of composing and decomposing 2-dimensional figures.

*Connections: M01-S5C2-05. Explain and clarify mathematical thinking.*

**Example:**
- What shapes can be made from four squares?

![Example Image]

- Students may also be asked to trace objects or use a drawing program to show different ways that a figure can be divided into different shapes.

![Division Examples]

The bulleted items within a performance objective indicate the specific content to be taught.

**Explanations and Examples Updated 1.19.09**

Grade 1
Strand 4: Geometry and Measurement
Concept 2: Transformation of Shapes

Apply spatial reasoning to create transformations and use symmetry to analyze mathematical situations.

In Grade 1, there are no performance objectives in this concept. Performance objectives begin in Grade 2.

Strand 4: Geometry and Measurement
Concept 3: Coordinate Geometry

Specify and describe spatial relationships using rectangular and other coordinate systems while integrating content from each of the other strands.

In Grade 1, there are no performance objectives in this concept. Performance objectives begin in Grade 4.
ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Strand 4: Geometry and Measurement
Concept 4: Measurement

Understand and apply appropriate units of measure, measurement techniques, and formulas to determine measurements.

In Grade 1, students begin to understand what it means to measure, and they develop their measuring skills using everyday objects. As they practice using measurement tools to measure objects, they reinforce their sense of number and continue to develop their sense of space and shapes.

<table>
<thead>
<tr>
<th>Performance Objectives</th>
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</thead>
<tbody>
<tr>
<td>Students are expected to:</td>
<td></td>
<td>Students can make direct comparison or measure using non-standard units (using multiple units or using one unit multiple times). Suitable non-standard measuring units for young children include marbles or cubes for weight; paper clips, craft sticks, toothpicks, coffee stirrers, etc. for length; and filled paper cups to measure capacity.</td>
</tr>
<tr>
<td>PO 1. Compare and order objects according to length, capacity, and weight. Connections: M01-S1C1-01, M01-S1C1-02, SC01-S1C1-01, SC01-S1C3-01, SC01-S5C1-01</td>
<td>M01-S5C2-05. Explain and clarify mathematical thinking.</td>
<td>Students describe the relationship between the size of the measurement unit and the number of units needed to measure something. For example, it takes more toothpicks than craft sticks to measure the width of my desk. The longer the unit the fewer I need.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The idea of transitivity should also be included. For example, if Jon is taller than Jacob, and Jacob is taller than Luisa, then Jon is taller than Luisa.</td>
</tr>
</tbody>
</table>

The bulleted items within a performance objective indicate the specific content to be taught.
### Performance Objectives

<table>
<thead>
<tr>
<th>Students are expected to:</th>
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<tbody>
<tr>
<td><strong>PO 2.</strong> Measure and compare the length of objects using the benchmark of one inch.</td>
</tr>
<tr>
<td>Connections: M01-S1C1-01, SC01-S1C2-03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Process Integration</th>
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</thead>
<tbody>
<tr>
<td>M01-S5C2-06. Determine whether a solution is reasonable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explanations and Examples</th>
</tr>
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<tbody>
<tr>
<td>Students use “one-inch rulers”, such as one-inch paper strips or one-inch cubes, to measure the length of objects. Then they use rulers marked in one-inch increments.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Students are expected to:</th>
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</thead>
<tbody>
<tr>
<td><strong>PO 3.</strong> Sequence the days of the week and the months of the year.</td>
</tr>
<tr>
<td>Connections: M01-S1C1-05</td>
</tr>
</tbody>
</table>

### Strand 5: Structure and Logic

This strand emphasizes the core processes of problem solving. Students draw from the content of the other four strands to devise algorithms and analyze algorithmic thinking. Strand One and Strand Three provide the conceptual and computational basis for these algorithms. Logical reasoning and proof draws its substance from the study of geometry, patterns, and analysis to connect remaining strands. Students use algorithms, algorithmic thinking, and logical reasoning (both inductive and deductive) as they make conjectures and test the validity of arguments and proofs. Concept two develops the core processes as students evaluate situations, select problem solving strategies, draw logical conclusions, develop and describe solutions, and recognize their applications.

### Concept 1: Algorithms and Algorithmic Thinking

Use reasoning to solve mathematical problems.

In Grade 1, there are no performance objectives in this concept. Performance objectives begin in Grade 4.
ARIZONA MATHEMATICS STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Strand 5: Structure and Logic
Concept 2: Logic, Reasoning, Problem Solving, and Proof

Evaluate situations, select problem-solving strategies, draw logical conclusions, develop and describe solutions, and recognize their applications.

In Grade 1, students further develop the concept that doing mathematics involves solving problems and discussing what they did to solve them. Students continue to develop their mathematical communication skills as they participate in mathematical discussions involving questions like “How did you get that?”; “Why did you do that?”; and “How do you know that?” Students begin to build their mathematical vocabulary as they use correct mathematical language appropriate to grade 1.

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<tbody>
<tr>
<td><strong>Students are expected to:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO 1. Identify the question(s) asked and any other questions that need to be answered in order to find a solution.</td>
<td>Some of the Strand 5 Concept 2 performance objectives are listed throughout the grade level document in the Process Integration Column (2nd column). Since these performance objectives are connected to the other content strands, the process integration column is not used in this section next to those performance objectives.</td>
<td></td>
</tr>
<tr>
<td>PO 2. Identify the given information that can be used to find a solution.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO 3. Select from a variety of problem-solving strategies and use one or more strategies to arrive at a solution.</td>
<td>Problem solving strategies may include drawing pictures, using objects, acting out, making a chart or list, etc.</td>
<td></td>
</tr>
<tr>
<td>PO 4. Represent a problem situation using any combination of words, numbers, pictures, physical objects, or symbols.</td>
<td>Students need opportunities to connect the different representations and explain the connections. Representations should include numbers, words (including mathematical language), pictures, and/or physical objects. Students should be able to use all of these representations as needed.</td>
<td></td>
</tr>
</tbody>
</table>

The bulleted items within a performance objective indicate the specific content to be taught.

Arizona Department of Education: Standards and Assessment Division
Approved 6.24.08
## Performance Objectives

### Students are expected to:

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</thead>
<tbody>
<tr>
<td><strong>PO 5.</strong> Explain and clarify mathematical thinking.</td>
<td>Some of the Strand 5 Concept 2 performance objectives are listed throughout the grade level document in the Process Integration Column (2nd column). Since these performance objectives are connected to the other content strands, the process integration column is not used in this section next to those performance objectives.</td>
<td>Students will often need to use objects and pictures to explain their thinking. Modeling different explanations to guide students is helpful.</td>
</tr>
<tr>
<td><strong>PO 6.</strong> Determine whether a solution is reasonable.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The bulleted items within a performance objective indicate the specific content to be taught.
Science Standard Articulated
by Grade Level 2004

Grade 1
Science Standard Articulated by Grade Level

INTRODUCTION

Students are naturally curious about the world and their place in it. Sustaining this curiosity and giving it a scientific foundation must be a high priority in Arizona schools. Application of scientific thinking enables Arizona students to strengthen skills that people use every day: solving problems creatively, thinking critically, working cooperatively in teams, using technology effectively, and valuing lifelong learning.

Science education is much more than merely learning content. It is the active process of investigation and the critical review of evidence related to the world around us, both visible and invisible. Science is a dynamic process of gathering and evaluating information, looking for patterns, and then devising and testing possible explanations. Active engagement in scientific investigation leads students to think critically and to develop reasoning skills that allow them to become independent, lifelong learners. Science methods and thought processes have application well beyond the bounds of science and support learning goals in all subject areas.

The Arizona Science Standard Articulated by Grade Level has been written for ALL students. The science standard is set with the expectation that science instruction occurs at all grade levels – beginning in early grades with simple exploration, progressing to increasingly organized and sophisticated science investigations in higher grades.

Underlying all of the science standard strands are the five unifying concepts as identified in the National Science Education Standards (1995):

- Systems, Order, and Organization
- Evidence, Models, and Explanation
- Constancy, Change, and Measurement
- Evolution and Equilibrium
- Form and Function

This conceptual framework provides students with productive and insightful ways of considering and integrating a range of basic ideas that explain the natural world. Because the understanding and abilities associated with major conceptual and procedural schemes need to be developed over an entire education, the unifying concepts and processes transcend disciplinary boundaries.

These unifying concepts can be introduced in early grades and developed appropriately through the elementary grades and high school. Students should be explicitly shown how each of these unifying concepts apply to and connect life, physical, and Earth and space sciences. These science content areas can be taught in conjunction with each other, as well as with other subject areas in an interdisciplinary approach. The unifying concepts in science education help focus instruction and provide a link to other disciplines.
BACKGROUND

The state Board of Education adopted the Arizona Academic Standards in 1998 to define what Arizona’s students need to know and be able to do by the end of twelfth grade. Developed by committees comprised of educators, parents, students, and business and community leaders, these standards were written in grade-level clusters with benchmarks at 3, 5, 8, and high school.

RATIONALE

Requirements in the No Child Left Behind Act of 2001 (NCLB) and the need for periodic review of the state academic standards prompted the decision by the Arizona Department of Education (ADE) to refine and articulate the academic standard for science by grade level. This refinement and articulation project was started in April 2003, and was completed in May 2004.

METHODOLOGY

The Science Standard Revision Committee was composed of a statewide representation of scientists and science educators to reflect school districts large and small, rural and urban, as well as the ethnic diversity of Arizona. National science consultants, university professors, and community members advised the committee and provided valuable reviews of the work in progress. The goal was to articulate, or align, the current academic standards by grade level (K-8) and in high school with the state requirement of two years of high school science.

The committee utilized several nationally recognized publications to establish content guidelines during the development of the draft:

- National Research Council (NRC)
  - National Science Education Standards
  - Inquiry and the National Science Education Standards
  - Designing Mathematics or Science Curriculum Programs
- The American Association for the Advancement of Science
  - Atlas of Science Literacy
  - Benchmarks for Science Literacy
  - Design for Science Literacy
  - Science for All Americans
- Science Framework for the 1996 and 2000 National Assessment of Educational Progress (NAEP)

The committee created draft documents by first reviewing the existing standards. The performance objectives were articulated, or aligned, to the appropriate grade levels. Over a period of months, subcommittees, composed of representatives of the full committee, met to refine the documents. A guiding principle in the articulation process
was whether a performance objective was reasonable, useful, and appropriate. The measurability of each performance objective was also considered.

External reviews by nationally recognized consultants and reviews by university and local experts provided additional guidance and perspective to the committees.

Public review of the Science Standard Articulated by Grade Level occurred during the month of February 2004. A draft of the standard was placed on the ADE website with the option for individuals to make comments online. Six public hearings occurred throughout the state to collect additional comments. After all public comments were collected and organized, the committee met to review them and to recommend appropriate modifications to the standard. This final draft was presented to the state Board of Education in May 2004 for adoption as the Arizona Science Standard Articulated by Grade Level.
SCIENCE STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

The goal in the development of the standard was to assure that the six strands and five unifying concepts are interwoven into a fabric of science that represents the true nature of science. Students have the opportunity to develop both the skills and content knowledge necessary to be scientifically literate members of the community.

Strands 1, 2, and 3 are designed to be explicitly taught and embedded within each of the content Strands 4, 5, and 6, and are not intended to be taught in isolation. The processes, skills, and content of the first three strands are designed to “umbrella” and complement the content of Life Science, Physical Science, and Earth and Space Science.

Strand 1: Inquiry Process

Inquiry Process establishes the basis for students’ learning in science. Students use scientific processes: questioning, planning and conducting investigations, using appropriate tools and techniques to gather data, thinking critically and logically about relationships between evidence and explanations, and communicating results.

<table>
<thead>
<tr>
<th>Concept 1: Observations, Questions, and Hypotheses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observe, ask questions, and make predictions.</td>
</tr>
<tr>
<td>PO 1. Compare common objects using multiple senses.</td>
</tr>
<tr>
<td>PO 2. Ask questions based on experiences with objects, organisms, and events in the environment. (See M01-S2C1-01)</td>
</tr>
<tr>
<td>PO 3. Predict results of an investigation based on life, physical, and Earth and space sciences (e.g., animal life cycles, physical properties, Earth materials).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept 2: Scientific Testing (Investigating and Modeling)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participate in planning and conducting investigations, and recording data.</td>
</tr>
<tr>
<td>PO 1. Demonstrate safe behavior and appropriate procedures (e.g., use of instruments, materials, organisms) in all science inquiry.</td>
</tr>
<tr>
<td>PO 2. Participate in guided investigations in life, physical, and Earth and space sciences.</td>
</tr>
<tr>
<td>PO 3. Use simple tools such as rulers, thermometers, magnifiers, and balances to collect data (U.S. customary units). (See M01-S4C4-07)</td>
</tr>
<tr>
<td>PO 4. Record data from guided investigations in an organized and appropriate format (e.g., lab book, log, notebook, chart paper). (See W01-S3C2-01 and W01-S3C3-01)</td>
</tr>
</tbody>
</table>

Italics denote a repetition of a performance objective (learned in an earlier grade) that is to be applied to grade level content or at a higher level of complexity. The bulleted items within a performance objective indicate specific content to be taught.

Approved 5.24.04 Updated 3.10.05
SCIENCE STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Concept 3: Analysis and Conclusions
Organize and analyze data; compare to predictions.

PO 1. Organize (e.g., compare, classify, and sequence) objects, organisms, and events according to various characteristics. (See M01-S4C4-01)

PO 2. Compare the results of the investigation to predictions made prior to the investigation.

Concept 4: Communication
Communicate results of investigations.

PO 1. Communicate the results of an investigation using pictures, graphs, models, and/or words. (See M01-S2C1-02 and W01-S3C3-02)

PO 2. Communicate with other groups to describe the results of an investigation. (See LS-F1)

Strand 2: History and Nature of Science

Scientific investigation grows from the contributions of many people. History and Nature of Science emphasizes the importance of the inclusion of historical perspectives and the advances that each new development brings to technology and human knowledge. This strand focuses on the human aspects of science and the role that scientists play in the development of various cultures.

Concept 1: History of Science as a Human Endeavor
Identify individual and cultural contributions to scientific knowledge.

PO 1. Give examples of how diverse people (e.g., children, parents, weather reporters, cooks, healthcare workers, gardeners) use science in daily life.

PO 2. Identify how diverse people and/or cultures, past and present, have made important contributions to scientific innovations (e.g., Sally Ride [scientist], supports Strand 6; Neil Armstrong [astronaut, engineer], supports Strand 6).

Concept 2: Nature of Scientific Knowledge
Understand how science is a process for generating knowledge.

No performance objectives at this grade level
Strand 3: Science in Personal and Social Perspectives

Science in Personal and Social Perspectives emphasizes developing the ability to design a solution to a problem, to understand the relationship between science and technology, and the ways people are involved in both. Students understand the impact of science and technology on human activity and the environment. This strand affords students the opportunity to understand their place in the world – as living creatures, consumers, decision makers, problem solvers, managers, and planners.

Concept 1: Changes in Environments
Describe the interactions between human populations, natural hazards, and the environment.

No performance objectives at this grade level

Concept 2: Science and Technology in Society
Understand the impact of technology.

PO 1. Identify various technologies (e.g., automobiles, radios, refrigerators) that people use.

PO 2. Describe how suitable tools (e.g., magnifiers, thermometers) help make better observations and measurements.

Strand 4: Life Science

Life Science expands students’ biological understanding of life by focusing on the characteristics of living things, the diversity of life, and how organisms and populations change over time in terms of biological adaptation and genetics. This understanding includes the relationship of structures to their functions and life cycles, interrelationships of matter and energy in living organisms, and the interactions of living organisms with their environment.

Concept 1: Characteristics of Organisms
Understand that basic structures in plants and animals serve a function.

PO 1. Identify the following as characteristics of living things:
- growth and development
- reproduction
- response to stimulus

PO 2. Compare the following observable features of living things:
- movement – legs, wings
- protection – skin, feathers, tree bark
- respiration – lungs, gills
- support – plant stems, tree trunks

PO 3. Identify observable similarities and differences (e.g., number of legs, body coverings, size) between/among different groups of animals.

*Italics denote a repetition of a performance objective (learned in an earlier grade) that is to be applied to grade level content or at a higher level of complexity.*

The bulleted items within a performance objective indicate specific content to be taught.

Approved 5.24.04  Updated 3.10.05
Concept 2: Life Cycles
Understand the life cycles of plants and animals.

PO 1. Identify stages of human life (e.g., infancy, adolescence, adulthood).

PO 2. Identify similarities and differences between animals and their parents. (See 1CH-F4)

Concept 3: Organisms and Environments
Understand the relationships among various organisms and their environment.

PO 1. Identify some plants and animals that exist in the local environment.

PO 2. Compare the habitats (e.g., desert, forest, prairie, water, underground) in which plants and animals live.

PO 3. Describe how plants and animals within a habitat are dependent on each other.

Concept 4: Diversity, Adaptation, and Behavior
Identify plant and animal adaptations.

No performance objectives at this grade level

Strand 5: Physical Science

Physical Science affords students the opportunity to increase their understanding of the characteristics of objects and materials they encounter daily. Students gain an understanding of the nature of matter and energy, including their forms, the changes they undergo, and their interactions. By studying objects and the forces that act upon them, students develop an understanding of the fundamental laws of motion, knowledge of the various ways energy is stored in a system, and the processes by which energy is transferred between systems and surroundings.

Concept 1: Properties of Objects and Materials
Classify objects and materials by their observable properties.

PO 1. Classify objects by the following observable properties:
   - shape
   - texture
   - size
   - color
   - weight

PO 2. Classify materials as solids or liquids.

*Italicics denote a repetition of a performance objective (learned in an earlier grade) that is to be applied to grade level content or at a higher level of complexity. The bulleted items within a performance objective indicate specific content to be taught*

Approved 5.24.04 Updated 3.10.05
Concept 2: Position and Motion of Objects
Understand spatial relationships and the way objects move.

| PO 1. Demonstrate the various ways that objects can move (e.g., straight line, zigzag, back-and-forth, round-and-round, fast, slow). |

Concept 3: Energy and Magnetism
Investigate different forms of energy.

| No performance objectives at this grade level |

Strand 6: Earth and Space Science

Earth and Space Science provides the foundation for students to develop an understanding of the Earth, its history, composition, and formative processes, and an understanding of the solar system and the universe. Students study the regularities of the interrelated systems of the natural world. In doing so, they develop understandings of the basic laws, theories, and models that explain the world (NSES, 1995). By studying the Earth from both a historical and current time frame, students can make informed decisions about issues affecting the planet on which they live.

Concept 1: Properties of Earth Materials
Identify the basic properties of Earth materials.

| PO 1. Describe the following basic Earth materials:  
  - rocks  
  - soil  
  - water |

| PO 2. Compare the following physical properties of basic Earth materials:  
  - color  
  - texture  
  - capacity to retain water |

| PO 3. Identify common uses (e.g., construction, decoration) of basic Earth materials (i.e., rocks, water, soil). |

| PO 4. Identify the following as being natural resources:  
  - air  
  - water  
  - soil  
  - trees  
  - wildlife |

| PO 5. Identify ways to conserve natural resources (e.g., reduce, reuse, recycle, find alternatives). |

*Italics denote a repetition of a performance objective (learned in an earlier grade) that is to be applied to grade level content or at a higher level of complexity. The bulleted items within a performance objective indicate specific content to be taught.*

Approved 5.24.04 Updated 3.10.05
## Concept 2: Objects in the Sky

**Identify objects in the sky.**

**PO 1.** Identify evidence that the Sun is the natural source of heat and light on the Earth (e.g., warm surfaces, shadows, shade).

**PO 2.** Compare celestial objects (e.g., Sun, Moon, stars) and transient objects in the sky (e.g., clouds, birds, airplanes, contrails).

**PO 3.** Describe observable changes that occur in the sky, (e.g., clouds forming and moving, the position of the Moon).

## Concept 3: Changes in the Earth and Sky

Understand characteristics of weather conditions and climate.

**PO 1.** Identify the following characteristics of seasonal weather patterns:
- temperature
- type of precipitation
- wind

**PO 2.** Analyze how the weather affects daily activities.
Social Studies Standard Articulated by Grade Level 2006

Grade 1
Social Studies Standard Articulated by Grade Level

INTRODUCTION

To maintain the Union that supports our freedoms, we must rely on the knowledge, skills, and character of its citizens and those they elect to public office. Critical to the preservation and improvement of America’s republican form of government is the study of our founding principles, namely those detailed in the United States Constitution, the Declaration of Independence, and *The Federalist Papers*. The standard includes the study of rich and diverse contributions that people of many backgrounds have made to American life and institutions while emphasizing our shared heritage. Well-informed citizens understand our political, cultural and economic interaction with the rest of the world. Geographic knowledge expands the understanding of our development and identity in the world. The standard requires that students attain knowledge of essential facts, concepts, people, and events as well as a firm grasp of reasoning, inquiry, and research skills. Students must learn how to frame and test hypotheses, distinguish logical from illogical reasoning, develop informed opinions based on different points of view, and employ reflective thinking and evaluation. In this way students will be prepared to fulfill their responsibilities as citizens of our democratic republic. The standard presents academic content and skills in the four interrelated disciplines of history, geography, civics/government, and economics that are essential to an understanding of our human experience, past and present.

BACKGROUND

The state Board of Education began the development process for the Arizona academic standards in 1996 to define what Arizona students need to know and be able to do by the end of twelfth grade. The Social Studies Standards were adopted in 2000 and partially revised in 2003. Developed by committees comprised of educators, subject matter experts, and business and community leaders, the Social Studies Standard was fully revised and written in articulated grade-specific performance objectives in 2004 - 2005.

RATIONALE

Requirements in the *No Child Left Behind Act of 2001* (NCLB) and the practice of periodic review of the state academic standards prompted the decision by the Arizona Department of Education to refine and articulate the academic standards for mathematics, reading, writing, and science by grade level. An articulation of the social studies standard was included in the process in order to provide consistency across content areas. The skills and content of social studies are not only a critical component of a comprehensive curriculum they also support student success in other areas.
METHODOLOGY

A committee to articulate the social studies standard was formed consisting of a representative sample of educators from around the state. It represented large and small schools, rural and urban districts, and ethnic diversity. Subject matter experts, university professors, and community members advised the committees. The goal was to articulate, or align, the current academic standards by grade level (K-12).

The Social Studies Articulation Committee utilized information from the National Council for the Social Studies, the National Council for Geographic Education, the Arizona Council on Economics Education, the Arizona Geographic Alliance, the Bill of Rights Institute, and other sources to promote quality instruction based on current, pedagogical, and research-based practices.

The articulation process included a restructuring of the Arizona Academic Content Standards to better facilitate the alignment of performance objectives by grade level, while maintaining the content integrity of the existing standards. Over a period of months, the articulation committees and smaller sub-committees refined the documents. Reasonableness, usefulness, and appropriateness were the guidelines for the articulation process.

External reviews by nationally recognized consultants and reviews by university and local experts provided additional guidance and perspective to the committee.
SOCIAL STUDIES STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

First Grade History Strands introduce the concept that settlement enabled cultures and civilizations to develop in different places around the world, advancing their own and later civilizations. North America and Egypt are introduced as examples. Exploration is revisited by introducing the impact of interaction between Native Americans and Europeans during the period of colonization.

**Strand 1: American History**
A study of American History is integral for students to analyze our national experience through time, to recognize the relationships of events and people, and to interpret significant patterns, themes, ideas, beliefs, and turning points in Arizona and American history. Students will be able to apply the lessons of American History to their lives as citizens of the United States.

<table>
<thead>
<tr>
<th>Concept 1: Research Skills for History</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historical research is a process in which students examine topics or questions related to historical studies and/or current issues. By using primary and secondary sources effectively students obtain accurate and relevant information. An understanding of chronological order is applied to the analysis of the interrelatedness of events. These performance objectives also appear in Strand 2: World History. They are intended to be taught in conjunction with appropriate American or World History content, when applicable.</td>
</tr>
</tbody>
</table>

| PO 1. | Place important life events in chronological order on a timeline. |
| PO 2. | Retell stories to describe past events, people, and places. |
| PO 3. | Use primary source materials (e.g., photos, artifacts, maps) to study people and events from the past. |

<table>
<thead>
<tr>
<th>Concept 2: Early Civilizations Pre 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>The geographic, political, economic and cultural characteristics of early civilizations made significant contributions to the later development of the United States.</td>
</tr>
</tbody>
</table>

| PO 1. | Recognize that the development of farming allowed groups of people to settle in one place and develop into cultures/civilizations (e.g., Ancestral Puebloans (Anasazi), Hohokam, Moundbuilders, Aztec, Mayan) Connect with: Strand 2 Concept 2 |
| PO 2. | Recognize that settlement led to developments in farming techniques (e.g., irrigation), government, art, architecture, and communication in North America. |

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**italicized performance objectives** - a performance objective repeated verbatim from year to year; it is understood that the depth, complexity, and difficulty level developmentally match the grade level expectations

Approved 9.26.05 Updated 5.22.06
### Concept 3: Exploration and Colonization 1500s – 1700s

The varied causes and effects of exploration, settlement, and colonization shaped regional and national development of the U.S.

- **PO 1.** Describe the interaction of Native Americans with the Spanish (e.g., arrival of Columbus, settlement of St. Augustine, exploration of the Southwest, exchange of ideas, culture and goods).
- **PO 2.** Describe the interaction of Native Americans with the Pilgrims (e.g., arrival of the Mayflower, Squanto, the Wampanoag, the First Thanksgiving).
- **PO 3.** Describe the exchange of ideas, culture and goods between the Native Americans and the Pilgrims.
- **PO 4.** Recognize that the United States began as the Thirteen Colonies ruled by England.
- **PO 5.** Compare the way people lived in Colonial times with how people live today (e.g., housing, food transportation, school).

### Concept 4: Revolution and New Nation 1700s – 1820

The development of American constitutional democracy grew from political, cultural, and economic issues, ideas, and events.

No performance objectives at this grade.

### Concept 5: Westward Expansion 1800 – 1860

Westward expansion, influenced by political, cultural, and economic factors, led to the growth and development of the U.S.

No performance objectives at this grade.

### Concept 6: Civil War and Reconstruction 1850 – 1877

Regional conflicts led to the Civil War and resulted in significant changes to American social, economic, and political structures.

No performance objectives at this grade.

### Concept 7: Emergence of the Modern United States 1875 – 1929

Economic, social, and cultural changes transformed the U.S. into a world power.

No performance objectives at this grade.

### Concept 8: Great Depression and World War II 1929 – 1945

Domestic and world events, economic issues, and political conflicts redefined the role of government in the lives of U.S. citizens.

No performance objectives at this grade.

### Concept 9: Postwar United States 1945 – 1970s

Postwar tensions led to social change in the U.S. and to a heightened focus on foreign policy.

- **PO 1.** Recognize that Rosa Parks, Martin Luther King Jr., and César Chavez worked for and supported the rights and freedoms of others.

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Approved 9.26.05 Updated 5.22.06
Concept 10: Contemporary United States 1970s – Present
Current events and issues continue to shape our nation and our involvement in the global community.

**PO 1.** Use information from written documents, oral presentations, and the media to discuss current local and state events.

**Strand 2: World History**
A study of World History is integral for students to analyze the human experience through time, to recognize the relationships of events and people, and to interpret significant patterns, themes, ideas, beliefs, and turning points in American and world history. Students should be able to apply the lessons of World History to their lives as citizens of the United States and members of the world community.

**Concept 1: Research Skills for History**
Historical research is a process in which students examine topics or questions related to historical studies and/or current issues. By using primary and secondary sources effectively students obtain accurate and relevant information. An understanding of chronological order is applied to the analysis of the interrelatedness of events. These performance objectives also appear in Strand 1: American History. They are intended to be taught in conjunction with appropriate American or World History content, when applicable.

**PO 1.** Place important life events in chronological order on a timeline.

**PO 2.** Retell stories to describe past events, people, and places.

**PO 3.** Use primary source materials (e.g., photos, artifacts, maps) to study people and events from the past.

**Concept 2: Early Civilizations**
The geographic, political, economic and cultural characteristics of early civilizations significantly influenced the development of later civilizations.

(Nota: Advancements in early civilizations were introduced in Kindergarten.)

**PO 1.** Recognize that the development of farming allowed groups of people to settle in one place and develop into civilizations (e.g., Egypt).

**PO 2.** Recognize that settlement led to the development of farming techniques (e.g., Nile River flooding), government (e.g., pharaohs), art/architecture (e.g., pyramids), and writing (e.g., hieroglyphics) which contributed to the advancement of the Ancient Egyptian civilization.

**PO 3.** Recognize that civilizations in the Americas had similar characteristics to the Egyptians. Connect with: Strand 1 Concept 2

**Concept 3: World in Transition**
People of different regions developed unique civilizations and cultural identities characterized by increased interaction, societal complexity and competition.

No performance objectives at this grade.

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Approved 9.26.05  Updated 5.22.06
## Concept 4: Renaissance and Reformation
The rise of individualism challenged traditional western authority and belief systems resulting in a variety of new institutions, philosophical and religious ideas, and cultural and social achievements.

No performance objectives at this grade.

## Concept 5: Encounters and Exchange
Innovations, discoveries, exploration, and colonization accelerated contact, conflict, and interconnection among societies world wide, transforming and creating nations.

**PO 1.** Recognize why England and Spain wanted to rule other areas of the world.

Connect with: Strand 1 Concept 3

## Concept 6: Age of Revolution
Intensified internal conflicts led to the radical overthrow of traditional governments and created new political and economic systems.

No performance objectives at this grade.

## Concept 7: Age of Imperialism
Industrialized nations exerted political, economic, and social control over less developed areas of the world.

No performance objectives at this grade.

## Concept 8: World at War
Global events, economic issues and political ideologies ignited tensions leading to worldwide military conflagrations and diplomatic confrontations in a context of development and change.

No performance objectives at this grade.

## Concept 9: Contemporary World
The nations of the contemporary world are shaped by their cultural and political past. Current events, developments and issues continue to shape the global community.

**PO 1.** Use information from written documents, oral presentations, and the media to discuss current events.

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SOCIAL STUDIES STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Strand 3: Civics/Government
The goal of the civics strand is to develop the requisite knowledge and skills for informed, responsible participation in public life; to ensure, through instruction, that students understand the essentials, source, and history of the constitutions of the United States and Arizona, American institutions and ideals (ARS 15-710). Students will understand the foundations, principles, and institutional practices of the United States as a representative democracy and constitutional republic. They will understand the importance of each person as an individual with human and civil rights and our shared heritage in the United States. Students will understand politics, government, and the responsibilities of good citizenship. Citizenship skills include the capacity to influence policies and decisions by clearly communicating interests and the ability to build coalitions through negotiation, compromise, and consensus. In addition, students will learn that the United States influences and is influenced by global interaction.

**Concept 1: Foundations of Government**
The United States democracy is based on principles and ideals that are embodied by symbols, people and documents.

**PO 1.** Identify national symbols and monuments that represent American democracy and values:
   a) American flag
   b) Bald Eagle
   c) Statue of Liberty
   d) White House
   e) Washington Monument

**PO 2.** Recognize the Pledge of Allegiance and the National Anthem.

**PO 3.** Practice examples of democracy in action (e.g., voting, making classroom rules).

**PO 4.** Recognize how students work together to achieve common goals.

**PO 5.** Discuss the significance of national holidays:
   a) Thanksgiving
   b) Presidents’ Day
   c) Martin Luther King Jr. Day
   d) Fourth of July
   e) Constitution Day

**PO 6.** Recognize state symbols of Arizona (e.g., bird, flower, tree, flag).

**PO 7.** Recognize that people in Arizona and the United States have varied backgrounds, but may share principles, goals, customs, and traditions.

**Concept 2: Structure of Government**
The United States structure of government is characterized by the separation and balance of powers.

**PO 1.** Identify the current President of the United States and Governor of Arizona.

**Concept 3: Functions of Government**
Laws and policies are developed to govern, protect, and promote the well-being of the people.

No performance objectives at this grade.

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Approved 9.26.05 Updated 5.22.06
Concept 4: Rights, Responsibilities, and Roles of Citizenship
The rights, responsibilities and practices of United States citizenship are founded in the Constitution and the nation's history.

**PO 1.** Identify examples of responsible citizenship in the school setting and in stories about the past and present.

**PO 2.** Describe the rights and responsibilities of citizenship:
   a) elements of fair play, good sportsmanship, and the idea of treating others the way you want to be treated
   b) importance of participation and cooperation in a classroom and community
   c) why there are rules and the consequences for violating them
   d) responsibility of voting (every vote counts)

**PO 3.** Discuss the importance of students contributing to a community (e.g., helping others, working together, cleaning up the playground.)

Concept 5: Government Systems of the World
Different governmental systems exist throughout the world. The United States influences and is influenced by global interactions.

No performance objectives at this grade.

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**SOCIAL STUDIES STANDARD ARTICULATED BY GRADE LEVEL**  
**GRADE 1**

**Strand 4: Geography**  
The goal of the geography strand is to provide an understanding of the human and physical characteristics of the Earth’s places and regions and how people of different cultural backgrounds interact with their environment. Geographic reasoning is a way of studying human and natural features within a spatial perspective. Through the study of geography, students will be able to understand local, national, regional, and global issues. Students will interpret the arrangement and interactions of human and physical systems on the surface of the Earth. As these patterns have changed over time and are important to governments and economies, geographic reasoning will enhance students’ understanding of history, civics, and economics.

**Concept 1: The World in Spatial Terms**  
The spatial perspective and associated geographic tools are used to organize and interpret information about people, places and environments.

**PO 1.** Recognize different types of maps (e.g., political, physical) serve various purposes.

**PO 2.** Identify characteristics of maps and globes:
   a) compass rose  
   b) symbols  
   c) key/legend

**PO 3.** Construct a map of a familiar place (e.g., classroom, bedroom, playground) that includes a compass rose, symbols, and key/legend.

**PO 4.** Recognize characteristics of human and physical features:
   a) physical (i.e., ocean continent, river, lake, mountains, islands)  
   b) human (i.e., equator, North and South Poles)

**PO 5.** Locate physical and human features using maps, illustrations, images, or globes:
   a) physical (i.e., continent, ocean, river, lake, mountains, islands)  
   b) human (i.e., equator, North and South poles, country)

**PO 6.** Locate Arizona on a map of the United States.

**Concept 2: Places and Regions**  
Places and regions have distinct physical and cultural characteristics.

**PO 1.** Discuss human features (e.g., cities, parks, railroad tracks, hospitals, shops, schools) in the world.

**PO 2.** Discuss physical features (e.g., mountains, rivers, deserts) in the world.

**PO 3.** Recognize through images of content studied (e.g., Egypt, Arizona, local community) that places have distinct characteristics.

**PO 4.** Discuss the ways places change over time.

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Approved 9.26.05 Updated 5.22.06
**SOCIAL STUDIES STANDARD ARTICULATED BY GRADE LEVEL**

**GRADE 1**

<table>
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<tr>
<th>Concept 3: Physical Systems</th>
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<tbody>
<tr>
<td>Physical processes shape the Earth and interact with plant and animal life to create, sustain, and modify ecosystems. These processes affect the distribution of resources and economic development. Science Strands are summarized as they apply to Social Studies content in Grades K-8. In High School, the Performance Objectives are a summary of skills and content for grades 9 -12. These concepts are reinforced in Social Studies classes, but assessed through Science.</td>
</tr>
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</table>

(Science Strands are summarized below as they apply to Social Studies content in Grades K-8. These concepts are reinforced in Social Studies classes, but assessed through Science.)

Connect with:
- **Science Strand 4 Concept 3** Identify, compare, and describe plants and animals in various habitats.
- **Science Strand 6 Concept 1** Identify the basic properties and uses of earth materials (rocks, soil, water, conservation).
- **Science Strand 6 Concept 2** Identify objects in the sky (sun, moon, stars, clouds).
- **Science Strand 6 Concept 3** Understand characteristics of weather patterns and how they affect daily activities.

<table>
<thead>
<tr>
<th>Concept 4: Human Systems</th>
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<tbody>
<tr>
<td>Human cultures, their nature, and distribution affect societies and the Earth.</td>
</tr>
</tbody>
</table>

**PO 1.** Discuss elements of cultural (e.g., food, clothing, housing, sports, holidays) of a community in areas studied (e.g., local community, Arizona, Egypt).

Connect with: Reading Strand 2 Concept 2

**PO 2.** Discuss how land in the students’ community is used for industry, housing, business, agriculture, and recreation.

**PO 3.** Describe how people earn a living in the community and the places they work.

<table>
<thead>
<tr>
<th>Concept 5: Environment and Society</th>
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<tbody>
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<td>Human and environmental interactions are interdependent upon one another. Humans interact with the environment- they depend upon it, they modify it; and they adapt to it. The health and well-being of all humans depends upon an understanding of the interconnections and interdependence of human and physical systems.</td>
</tr>
</tbody>
</table>

**PO 1.** Identify ways (e.g., clothing, housing, crops) humans adapt to their environment.

**PO 2.** Identify resources that are renewable, recyclable, and non-renewable.

<table>
<thead>
<tr>
<th>Concept 6: Geographic Applications</th>
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</thead>
<tbody>
<tr>
<td>Geographic thinking (asking and answering geographic questions) is used to understand spatial patterns of the past, the present, and to plan for the future.</td>
</tr>
</tbody>
</table>

**PO 1.** Use geography concepts and skills (e.g., recognizing patterns, mapping, graphing) to find solutions for problems (e.g., trash, leaky faucets, bike paths, traffic patterns) in the local environment.

**PO 2.** Discuss geographic concepts related to current events.

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Approved 9.26.05  Updated 5.22.06
SOCIAL STUDIES STANDARD ARTICULATED BY GRADE LEVEL
GRADE 1

Strand 5: Economics
The goal of the economics strand is to enable students to make reasoned judgments about both personal economic questions and broader questions of economic policy. Students will develop an economic way of thinking and problem solving to understand and apply basic economic principles to decisions they will make as consumers, members of the workforce, citizens, voters, and participants in a global marketplace. This will prepare students to weigh both short-term and long-term effects of decisions as well as possible unintended consequences. The study of economics explains historical developments and patterns, the results of trade, and the distribution of income and wealth in local, regional, national, and world economies. Students will be able to analyze current issues and public policies and to understand the complex relationships among economic, political, and cultural systems.

Concept 1: Foundations of Economics
The foundations of economics are the application of basic economic concepts and decision-making skills. This includes scarcity and the different methods of allocation of goods and services.

PO 1. Discuss the difference between basic needs and wants.

PO 2. Recognize that people need to make choices because of limited resources.

PO 3. Recognize that some goods are made locally and some are made elsewhere.

PO 4. Recognize that people are buyers and sellers of goods and services.

PO 5. Recognize various forms of U.S. currency. Connect with: Math Strand 1 Concept 1

PO 6. Recognize that people save money for future goods and services.

Concept 2: Microeconomics
Microeconomics examines the costs and benefits of economic choices relating to individuals, markets and industries, and governmental policies.

No performance objectives at this grade.

Concept 3: Macroeconomics
Macroeconomics examines the costs and benefits of economic choices made at a societal level and how those choices affect overall economic well being.

No performance objectives at this grade.

Concept 4: Global Economics
Patterns of global interaction and economic development vary due to different economic systems and institutions that exist throughout the world.

No performance objectives at this grade.

Concept 5: Personal Finance
Decision-making skills foster a person’s individual standard of living. Using information wisely leads to better informed decisions as consumers, workers, investors and effective participants in society.

PO 1. Discuss reasons for personal savings.

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Approved 9.26.05 Updated 5.22.06
Technology Standards 2000

Foundations (Grades 1-3)
Technology Education Standards Rationale

Technology encompasses the tools and strategies for solving problems, using information, increasing productivity and enhancing personal growth. The word *technology* summons an image of a variety of tools ranging from shovels to gene splitters. When asked to develop the original Technology Standards, adopted in 1997, the Committee did so without the benefit of seeing the integration of various technologies into other curricular standards. Over the past four years, significant advances in technology have occurred. These changes have caused many national organizations to review what students need to know and be able to do in relation to technology. Therefore, when asked to review the current standards, the Revision Committee examined national standards (National Educational Technology Standards, Information Power, Information Technology in Education and Technology for All Americans), along with current Arizona standards. The Revision Committee also analyzed current research on technology skills important to business and industry. The Revision Committee reviewed technology that is currently integrated into other content area standards with the vision that as other standards are revised, technology will be seamlessly integrated.

The goal is to help students live, learn and work successfully and responsibly in an increasingly complex, technology-driven society. These Technology Standards are designed to provide foundational skills and processes that students need in order to work productively and creatively in their studies, at work and at home. Research on the transfer of learning strongly supports the position that instruction and educational activities should closely parallel the final desired behavior. It is essential that technology instruction be an integral part of a student’s educational experience. Education’s role is to help students meet the challenge of the future. Arizona must encourage, assist and provide all students with the required tools and instruction to enable them to acquire knowledge, develop skills and apply these tools successfully in our world.

The following definition of technology is supported in this document:

*Technology is the application of tools to solve problems that extend human potential for the benefit of society*
TECHNOLOGY EDUCATION STANDARDS FOUNDATIONS (GRADES 1-3)

STANDARD 1: FUNDAMENTAL OPERATIONS AND CONCEPTS
Students understand the operations and function of technology systems and are proficient in the use of technology.

• 1T-F1. Communicate about internal technology operations using developmentally appropriate and accurate terminology
  See: Language Arts (VP-F), Science (1SC-F4, PO1-2) and Workplace Skills (1WP-F5)
  PO 1. Apply basic vocabulary related to the internal operations of the technology (e.g., disks, drives, RAM, ROM, CD-ROM port, CD-ROM and DVD)

• 1T-F2. Demonstrate functional operation of technology components
  See: Comprehensive Health {Physical Activities} (1PA-F1) and Workplace Skills (7WP-F2)
  PO 1. Demonstrate correct ergonomic use of technology (e.g., correct posture, position of hands and feet, proper height of keyboard, proper lifting and moving of equipment)
  PO 2. Use multimedia resources (e.g., interactive books, educational software, elementary multimedia encyclopedias)
  PO 3. Access information sources (e.g., CD-ROMs, encyclopedias, pre-bookmarked Internet sites)
  PO 4. Communicate electronically, under teacher supervision (e.g., video, audio, e-mail) (For Internet safety protocols see Technology 2T-F2, PO1)

• 1T-F3. Use developmentally appropriate technology resources to access information and communicate electronically
  See: Language Arts (VP-F), Mathematics (1M-F7) and Workplace Skills (7WP-F1)
  PO 1. Operate keyboard and other common input and output devices (including adaptive devices for special needs when necessary)
    a) Use device in response to software (e.g., point and click, arrow and enter/return keys)
    b) Use keyboard effectively (e.g., knows locations and function of keys, begins touch-typing strategies by grade three)
  PO 2. Retrieve and save information (e.g., text documents, digital photos, music, video)
  PO 3. Print documents, text or image
TECHNOLOGY EDUCATION STANDARDS
FOUNDATIONS (GRADES 1-3)

STANDARD 2: SOCIAL, ETHICAL AND HUMAN ISSUES
Students understand the social, ethical and human issues related to using technology in their daily lives and demonstrate responsible use of technology systems, information and software.

• **2T-F1. Demonstrate respect for other students while using technology**  
  See: Social Studies (2SS-F3, PO1-3)
  
  PO 1. Describe and practice respect for other students while using technology (e.g., do not duplicate software or documents without authorization; report behaviors that threaten the ability of others to legitimately use resources; allow peers to work uninterrupted; do not erase or damage files, documents or projects)

• **2T-F2. Practice responsible use of software**
  
  PO 1. Use equipment appropriately (e.g., use for assignments and school work versus personal pleasure; do not send threats
  PO 2. Describe and practice legal and ethical behaviors when using technology (e.g., do not copy, alter, delete or move another person’s work
  PO 3. Demonstrate and practice safe and correct security procedures (e.g., protect password)

• **2T-F3. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide**  
  See: Comprehensive Health (4CH-F2), Science (3SC-F4), Social Studies (4SS-F2, PO4)
  
  PO 1. Describe three-to-five uses of technology in daily life
  PO 2. Discuss the positive and negative impact of technologies such as television and computers on daily life (e.g., negative health impact; safe Internet use, such knowing what information is safe to share when using e-mail, “talking” to strangers)
TECHNOLOGY EDUCATION STANDARDS
FOUNDATIONS (GRADES 1-3)

STANDARD 3: TECHNOLOGY PRODUCTIVITY TOOLS
Students use technology tools to enhance learning, to increase productivity and creativity, and to construct technology-enhanced models, prepare publications and produce other creative works.

- 3T-F1. Use prescribed technology writing or drawing tools for communicating and illustrating
  See: Language Arts (W-F1, PO5), Science (6SC-F7) and Social Studies (1SS-F1)
  
  PO 1. Use word processing to create a document and, where developmentally appropriate, use editing tools
  PO 2. Insert a graphic into a word processing document

- 3T-F2. Use prescribed technology tools for data collection and basic analysis
  See: Mathematics 2M-F1 and 2M-F2)
  
  PO 1. Use a spreadsheet or database application to perform simple data analysis (e.g., comparisons, collections, graphs and charts)

- 3T-F3. Use prescribed technology tools for publishing and presenting information
  
  PO 1. Use a pre-designed template or stationery to publish a document (e.g., newsletter, slide show, greeting card, certificate)
  PO 2. Create a multimedia product with support from teachers, family or student partners (e.g., slide show, hyperstack, video)

STANDARD 4: TECHNOLOGY COMMUNICATIONS TOOLS
Building on productivity tools, students will collaborate, publish, and interact with peers, experts and other audiences using telecommunications and media.

- 4T-F1. Communicate with others using telecommunications, with support from teachers, family members or student partners
  See: Language Arts (W-F4)
  
  PO 1. Communicate information electronically with support from teachers, family members or student partners (e.g., e-mail, videoconferencing, Web page)
TECHNOLOGY EDUCATION STANDARDS
FOUNDATIONS (GRADES 1-3)

• 4T-F2. Use technology tools for individual and collaborative communication activities to share products with audiences inside and outside the classroom
See: Language Arts (W-F1)

PO 1. Plan, design, and present an academic product to classroom or community (e.g., slide show, progressive story, drawings, story illustrations, video production, Digital images)

STANDARD 5: TECHNOLOGY RESEARCH TOOLS
Students will utilize technology-based research tools to locate and collect information pertinent to the task as well as evaluate and analyze information from a variety of sources.

Note: The performance objectives described in Standard 5 rely upon the mastery of skills and understanding of concepts from Standards 1-4 of this document

• 5T-F1. Recognize electronic information sources
See: Arts {Theatre} (2AT-F1), Language Arts (W-F5) and Workplace Skills (7WP-E2)

PO 1. Identify potential sources of information about a topic (e.g., video or cassette tapes, Web pages, CD-ROMs)
PO 2. Locate information in a resource selected by the teacher (e.g., Web page, CD-ROM)

STANDARD 6: TECHNOLOGY AS A TOOL FOR PROBLEM SOLVING AND DECISION-MAKING
Students use technology to make and support decisions in the process of solving real-world problems.

Note: Problem solving is inherent in all disciplines. Technology Standard 6 is designed to provide a cumulative (capstone) experience
See: Science 3SC in its entirety and Workplace Skills 3WP in its entirety

• 6T-F1. Use technology resources for problem solving, self-directed learning and extended learning activities

PO 1. Based on a class-defined problem, use technology to:
   a) collect data
   b) interpret data
   c) express a solution to the problem
PO 2. Based on a problem selected by the student, use technology to:
   a) collect data
   b) interpret data
   c) express a solution to the problem
Workplace Skills Standards 1997

Foundations (Grades 1-3)
Workplace Skills Standards Rationale

Most students will spend more than a third of their lives in a diverse and constantly changing workplace. Regardless of personal, career, or educational plans, students must demonstrate proficiency both in academics and the following workplace standards.

The Workplace Skills Standards are designed to be integrated into the traditional curriculum taught in schools at all levels and are most effectively learned in the context of an integrated effort involving parents, educators, business partners and members of the community. Student acquisition of critical workplace skills, with an emphasis on application, is a developmental process which encompasses an individual’s entire lifetime. The demonstration of these skills is essential for individuals and contributes to the foundation of an educated citizenry.
STANDARD 1
Students use principles of effective oral, written and listening communication skills to make decisions and solve workplace problems.

- **1WP-F1. Describe how the five senses are used in communications**
  
  PO 1. Identify the five senses
  PO 2. Provide examples of each sense in action

- **1WP-F2. Respond to oral presentations by formulating relevant questions and opinions and summarizing accurately**
  
  PO 1. Recognize the content of an oral presentation
  PO 2. Ask questions relating to content
  PO 3. State opinions relating to content
  PO 4. Develop summary of relevant content

- **1WP-F3. Apply critical listening skills (e.g., listening for content, long-term contexts, emotional meaning, following directions)**
  
  PO 1. Listen effectively
  PO 2. Analyze/evaluate orally received information
  PO 3. Respond appropriately

- **1WP-F4. Listen to an oral presentation, evaluate, and express an opinion orally**
  
  PO 1. Recognize the content of an oral presentation
  PO 2. Develop summary of relevant content

- **1WP-F5. Share ideas, opinions and information with a group, choosing vocabulary that communicates messages clearly, precisely and effectively**
  
  PO 1. Participate in groups
  PO 2. Speak to a group
  PO 3. Share writing with a group

- **1WP-F6. Write communications that have a definite audience and clear purpose, are well organized, and use appropriate conjunctions and transition words to tie ideas together**
• 1WP-F7. Determine the main idea or essential message of a text
  
  PO 1. Identify the main idea and relevant facts in a reading selection
  PO 2. Sequence a series of events from a reading selection
  PO 3. Compare characters (e.g., traits, roles, similarities, differences) in a reading selection
  PO 4. Identify the author's main purpose (e.g., to inform, to entertain, to persuade, to describe) in a reading selection

STANDARD 2

Students apply computation skills and data analysis techniques to make decisions and solve workplace problems.

Note: The Foundations Level is central to preparation for the workplace and is adequately covered in the Mathematics Standards document. The Proficiency and Distinction Levels include additional references to what students need to know and do as it relates to the workplace.

• 2M-F1. Collect and analyze data using the concepts of largest, smallest, almost often, least often and middle
  
  PO 1. Collect and record data from surveys (e.g., favorite color or food, height, ages) or experiments
  PO 2. Organize (e.g., sorting, sequencing, tallying) information from surveys or experiments
  PO 3. Identify largest, smallest, most often recorded (i.e., mode), least often and middle (i.e., median) using sorted data
  PO 4. Formulate questions from organized data
STANDARD 3
Students apply critical and creative thinking skills to make decisions and solve workplace problems.

- **3WP-F1. Address a specific problem by specifying their goals, devising alternative solutions, considering the risks of each and choosing the best course of action**
  
  PO 1. Apply problem solving techniques to determine a solution
  PO 2. Identify methods of initiating change
  PO 3. Define a variety of creative thinking skills
  PO 4. Practice a variety of creative thinking skills to identify potential solutions to workplace issues
  PO 5. Identify the need for data, obtaining it from existing sources such as the library, online databases or field research
  PO 6. Describe possible solutions to a variety of problems

- **3WP-F2. Identify methods for initiating change**
  
  PO 1. Give examples of methods to initiate change

- **3WP-F3. Define a variety of creative thinking skills**
  
  PO 1. Use creative thinking skills in a variety of situations

- **3WP-F4. Practice a variety of creative thinking skills to identify potential solutions to workplace issues**
  
  PO 1. Identify ways of using creative thinking skills
  PO 2. Apply creative thinking skills to solve workplace issues

- **3WP-F5. Identify the need for data, obtaining it from existing sources such as the library, on-line databases or field research**
  
  PO 1. Define data, database, library and data sources, and field research
  PO 2. Apply data from existing sources, such as the library, on-line database and field research

- **3WP-F6. Describe possible solutions to a variety of problems**
  
  PO 1. Identify possible solutions to a variety of problems
  PO 2. Apply problem solving techniques to determine a solution
STANDARD 4
Students work individually and collaboratively within team settings to accomplish objectives.

- 4WP-F1. Understand and demonstrate the importance of dependability, trustworthiness, productivity and initiative in all areas of life and when interacting with others
  
  PO 1. Demonstrate characteristics of positive behavior
  PO 2. Identify roles of team members
  PO 3. Interact collaboratively to obtain team results

- 4WP-F2. Identify the difference between decisions and accomplishments made by individuals and groups
  
  PO 1. Compare individual versus group decisions
  PO 2. Compare individual versus group accomplishments

- 4WP-F3. Demonstrate teamwork skills by contributing ideas, suggestions and effort; resolving conflicts; and handling peer pressure
  
  PO 1. Demonstrate skills necessary for positive group dynamics

- 4WP-F4. Recognize and participate in leadership roles
  
  PO 1. Describe leadership
  PO 2. Give examples of leadership roles
  PO 3. Practice leadership roles

STANDARD 5
Students will demonstrate a set of marketable skills that enhance career options.

- 5WP-F1. Explore areas of interests and possible work choices
  
  PO 1. Define “areas of interest”
  PO 2. Describe work choices
  PO 3. Discuss how interests can relate to work choices
WORKPLACE SKILLS STANDARDS FOUNDATIONS (GRADES 1-3)

- **5WP-F2.** Demonstrate ability to make decisions which contribute to a productive school and work ethic
  
  PO 1. Demonstrate being dependable, trustworthy, and productive while at school
  PO 2. Practice decision-making process

- **5WP-F3.** Demonstrate basic academic skills in reading, writing, listening, speaking and mathematics

**STANDARD 6**

Students illustrate how social, organizational and technological systems function.

*Definition:* A system equals an organized framework made up of interrelated components acting together as a whole, in which a change in one component may affect the entire operation. Examples of systems are social (e.g., family, school) and technological (e.g., local area network, telephone).

- **6WP-F1.** Identify the components and how they fit together in community and social systems
  
  PO 1. Discuss the relationship between systems in the community (e.g., family, school, social, technological)

**STANDARD 7**

Students demonstrate technological literacy for productivity in the workplace.

- **7WP-F1.** Identify the many uses of technology
  
  PO 1. Give examples of the many uses of technology

- **7WP-F2.** Use technology to access information, demonstrating basic computer skills (e.g., pull-down menus, icons, passwords, key word searches)
  
  PO 1. Define/discuss/give examples of technology
  PO 2. Operate developmentally appropriate technologies to access information
STANDARD 8
Students apply principles of resource management and develop skills that promote personal and professional well-being.

- **8WP-F1. Understand the relationship between the goal-setting process and the allocation of time, money, material and human resources**
  
  PO 1. Define/discuss relationship between goal-setting and allocation of resources

- **8WP-F2. Plan class time to accomplish schoolwork goals**
  
  PO 1. Plan class time to accomplish schoolwork goals