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Educational Service Center, TAAS Dept., Region XIII, 5701 Springdale Rd., Austin, TX 78723-3675; Tel: 512-919-5344; Fax: 512-926-4406; Web site: http://www.tenet.edu/teks/language arts ($50).

Guides - Non-Classroom (055)

Creative Teaching; Faculty Development; Group Activities; Instructional Innovation; Primary Education; Program Implementation; *Reading Improvement; *Reading Instruction; Teacher Workshops; Training Methods

*Word Analysis and Synthesis

Containing four sections of materials for workshop presenters to teach Word Analysis, this guide assists primary grade teachers in enhancing the Reading and Language Arts knowledge and skills of Texas students. Section 1, an introduction, defines the purpose of the guide and outlines six goals. Section 2, Professional Development, includes speaker's notes and suggestions on how to guide participants through the workshop. Section 3, Overheads, contains transparencies with key points and activities to accompany the speaker's notes; and section 4, Handouts, includes "Workshop Notes" for participants to take notes from the presentation and "Activity Handouts" for group activities. Contains 24 references and 26 educational resources. (SC)

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# Professional Development Guide

## Word Analysis: Principles for Instruction and Progress Monitoring

### Table of Contents:

1. **Introduction**
   - What is the Texas Center for Reading and Language Arts? ............................................ 7
   - Organization and Content of the Guide .............................................................................. 8
   - Center Staff and Other Contributors ............................................................................... 9

2. **Professional Development**
   - Preparing for the Workshop ............................................................................................ 13
   - Agenda ............................................................................................................................... 14
   - Objectives ......................................................................................................................... 15
   - Reading Achievement Over Time ...................................................................................... 16
   - Differences Between Readers ............................................................................................ 16
   - Big Ideas in Beginning Reading ......................................................................................... 17
   - English Language Arts and the TEKS ............................................................................... 18
   - Elements of Word Analysis ............................................................................................... 18
   - Letter-Sound Correspondence ............................................................................................ 19
   - Regular Word Reading ....................................................................................................... 23
   - Word Reading in Texts ....................................................................................................... 28
   - Irregular Word Reading ..................................................................................................... 29
   - Advanced Word Analysis .................................................................................................. 31
   - Summing Up ....................................................................................................................... 35

3. **Overheads**
   - Workshop Transparencies
   - Transparency Masters

4. **Handouts**
   - Workshop Notes
   - Activity Handouts

5. **Appendices**
   - References ......................................................................................................................... A1
   - Resources ............................................................................................................................ A3
1. Introduction
What is the Texas Center for Reading and Language Arts?

The Texas Center for Reading and Language Arts assists K–12 educators in enhancing the Reading and Language Arts knowledge and skills of Texas students, through implementation of the Texas Essential Knowledge and Skills (TEKS).

How are the Center’s Activities Accomplished?

**Goal 1:** To provide a cadre of school-level specialists with expertise in phonological awareness, word analysis, fluency strategies, and comprehension strategies who are able to use documented approaches to reading and language arts instruction to address TEKS objectives with students in grades K–3.

**Goal 2:** To enhance the knowledge, skills, and practices teachers use to implement the TEKS reading and language arts objectives with second language learners.

**Goal 3:** To enhance the knowledge, skills, and practices teachers use to implement the TEKS reading and language arts objectives with students in grades K–5 who are experiencing difficulty in reading and language arts.

**Goal 4:** To enhance the knowledge, skills, and practices teachers use to implement the TEKS reading and language arts objectives with students in grades 6–8, focusing on content area reading instruction.

**Goal 5:** To disseminate information generated by the Texas Center for Reading and Language Arts using current technology and media.

**Goal 6:** To communicate the goals, activities, and accomplishments of the Center to professionals and other community members.

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**Literacy Labs**
Both school-based and university-based labs served as models for universities and school districts.

**Professional Development Guides and Videos**
These guides are designed to provide educators across the state with materials and plans for professional development in reading and language arts, and to introduce the TEKS.

**Reading Liaisons**
Education Service Center Reading Liaisons work collaboratively with Center personnel to engage in and provide professional development on the TEKS.

**School Partnerships**
Collaborative relationships with schools that assist in the development of materials, curriculum guides, and product development.
Organization & Content of the Guide

The guide contains four sections of materials for presenters to teach Word Analysis. Section 2 (Professional Development), includes speaker’s notes and suggestions on how to guide participants through the workshop. Section 3 (Overheads), contains transparencies containing key points and activities to accompany your speaker’s notes; Section 4 (Handouts) includes "Workshop Notes" for participants to take notes of the presentation, and “Activity Handouts” for group activities; Section 5 (Appendices) provides a list of references and further readings on word Analysis research.
**Texas Education Agency**

Mike Moses  
Commissioner of Education

Felipe Alanis  
Deputy Commissioner  
Programs and Instruction

Ann Smisko  
Associate Commissioner,  
Curriculum, Assessment and Technology

Robin Gilchrist  
Assistant Commissioner for  
Statewide Reading Initiatives

David D. Anderson  
Coordinator, Curriculum and  
Professional Development

Sharon O’Neal  
Director of English Language  
Arts and Reading

Catherine Davis  
Assistant Director of Reading

**Reading Liaisons and Advisors**  
**Education Service Centers**

Region I, Edinburg • Angie Lehmann  
Region II, Corpus Christi • Mary Kureska  
Region III, Victoria • Lynne Mumme  
Region IV, Houston • Kathy Helm  
Region V, Beaumont • Vicky Gore  
Region VI, Huntsville • Gene Jolly  
Region VII, Kilgore • Alice Reader  
Region VIII, Mt. Pleasant • Gwen Smith  
Region IX, Wichita Falls • Kris Reid  
Region X, Richardson • Nancy Slaughter  
Region XI, Ft. Worth • Bettye Kuehler  
Region XII, Waco • Joan Berry  
Region XIII, Austin • Mari Lester  
Region XIV, Abilene • Susan Anderson  
Region XV, San Angelo • Susan Kerbow  
Region XV, San Angelo • Jody Johnson  
Region XV, San Angelo • Elaine Howard  
Region XVI, Amarillo • Wanda Doughten  
Region XVII, Lubbock • Maria Gamble  
Region XVIII, Midland • Carolyn Johnson  
Region XVIII, Midland • Perrie Whalen  
Region XIX, El Paso • Michele Dawson  
Region XX, San Antonio • Candace Anderson

**Texas Center for Reading & Language Arts**

Susan Barnes  
George Blanco  
Katrina Blodgett  
Diane Bryant  
David Chard  
Maggie Coleman  
Paula Correa  
Cathy Davis  
Bonnie M. Elliott  
Robin Gilchrist  
Philip B. Gough  
Michael Guerrero  
Allison Hamff  
Dianne Hess  
Peggy Hickman-Davis  
Marty Hougen  
June Jaap  
Sharon Jackson  
Cami Jones  
Marilyn Kameen  
Marcel LeJeune  
Chris Lemons  
Shari Levy  
Robert Linne  
Sharon O’Neal  
Lorie Ochoa  
Alba Ortiz  
Jean Osborn  
Paul Resta  
Rita Ricardo  
Bobby Rigg  
Phyllis Robertson  
Terry Ross  
Marla Seidner  
Kris Sloan  
Martha Smith  
Kathy Stewart  
Sylvia Linnan-Thompson  
Brenda Tyler  
Sharon Vaughn  
Nicole Ugel  
Cheryl Wilkinson  
Jo Worthy  
Terry Zimmerman
2. Professional Development
Preparing for the Workshop

This workshop is designed to introduce primary grade teachers to word analysis principles for instruction and progress monitoring. Classroom teachers, reading coordinators, media specialists, curriculum directors, and principals who work at the primary level are also appropriate participants. The research and knowledge base for word analysis is highlighted, key components and requirements of teaching children to read words in an alphabetic writing system are presented, and group discussion and activities are provided.

Materials
- Distribute copies of all activities and corresponding handouts to each participant prior to the beginning of the workshop. Handouts are found in Section 4 of this guide.

Equipment
- Overhead projector/marker

Room Arrangement
- Activities are designed for large group participation and cooperative work in small groups. Seating should be arranged to facilitate interaction in small groups. All participants will need to be able to see the screen for overhead projection.
Introduction

- Use Overhead #1 to introduce the Word Analysis workshop.
- Indicate that the degree of detail outlined in this guide may not be necessary for all children but is particularly important for children who are likely to experience difficulties with word reading.

Agenda

- Use Overhead #2 to present the workshop's agenda.

Note: You may wish to develop your own agenda.

Overhead #1

Word Analysis

Principles for Instruction and Progress Monitoring

Texas Center for Reading and Language Arts
University of Texas, College of Education
Texas Education Agency • Region XIII Education Service Center

Overhead #2

Agenda

- Research and knowledge base of beginning reading
- Teaching children to read words
- Teaching and monitoring:
  - Letter-sound correspondences
  - Regular word reading
  - Word reading in texts
  - Irregular word reading
  - Advanced word analysis
**Objectives**

1. Understand the components and requirements of teaching children to read in an alphabetic writing system.

2. Understand and describe the five essential skills of beginning word analysis.

3. Deliver instructional strategies for teaching children to read words and connected texts.

4. Monitor student performance on selected beginning reading skills and recommend a specific plan of instruction.

**Successful Readers**

- Use Overhead #4 to introduce the research and knowledge base of beginning reading by reviewing the characteristics of successful readers.


- How do successful readers read?

**Research & Knowledge Base of Beginning Reading**

- Successful readers rely primarily on the letters in the word rather than context or pictures to identify familiar and unfamiliar words.
- Process virtually every letter.
- Use letter-sound correspondences to identify words.
- Have a reliable strategy to decode words.
- Read words a sufficient number of times for words to become "automatic."
**Reading Achievement Over Time**

- Use Overhead #5 to discuss the trends participants observe from the data on the graph.
- Emphasize the divergence of high and low readers in 1st grade.
- Point out that very early in school a child's reading performance predicts future reading performance. Therefore, poor readers remain poor readers.

**Differences Between Good and Poor Readers**

- Use Overhead #6 to explain that the following data represent documentation by Allington (1984) as he observed children’s opportunities to read words.
- Point out the relatively small difference at first grade and the magnitude of the difference at fourth grade.

---

**Overhead #5**

*Research & Knowledge Base of Beginning Reading*

**What happens in reading achievement over time?**

In the following graphic you see two trajectories of children's word reading performance across grades 1 through 6. The data are the result of a task where children read words from a common word list.

---

**Overhead #6**

*Research & Knowledge Base of Beginning Reading*

**How do good and poor readers differ?**

<table>
<thead>
<tr>
<th></th>
<th>Poor Readers seen</th>
<th>Good Readers seen</th>
</tr>
</thead>
<tbody>
<tr>
<td>End of 1st grade</td>
<td>9,975 words</td>
<td>18,681 words</td>
</tr>
<tr>
<td>End of 4th grade</td>
<td>80,000 words</td>
<td>178,000 words</td>
</tr>
</tbody>
</table>

(Allington, 1984)
Definitions

Alphabetic Awareness:
Knowledge of letters of the alphabet coupled with the understanding that the alphabet represents the sounds of spoken language.

Alphabetic Understanding:
Understanding that words are composed of individual letters (graphemes) and sounds (letter-sound correspondence).

Phonological Recoding:
The process of translating printed words into letter-sound correspondences and blending the sounds into words.

Big Ideas in Beginning Reading

The strength of word reading, like a rope, depends on different factors:

- Strength of the individual strands
- Strategic integration of all strands
- Effective binding or connecting of strand

Use Overhead #8 to point out the meaning of the illustration: the strands in the graph represent the skills and strategies that children need to learn to read; students should learn some fundamentals of print awareness and phonological awareness prior to formal reading instruction; more advanced phonological awareness continues parallel with alphabetic understanding and phonological recoding; automaticity and fluency occur after students become proficient with the alphabet and phonological decoding.
English Language Arts and Reading TEKS

- Use Overhead #9 to review the word analysis component of the TEKS for grades 1–3.

Note: Refer participants to English Language Arts and Reading TEKS handout.

Elements of Word Analysis

- Use Overhead #10 to introduce the skills necessary for successful early word analysis.

Note: Identify each component of the slide in a clockwise direction.

Overhead #9

Texas Essential Knowledge and Skills (TEKS)

Grade 1: English Language Arts and Reading

The student uses letter-sound knowledge to decode written language

The student is expected to:

- Read
- Apply
- Identify
- Learn
- Recognize
- Name
- Understand
- Blend
- Decode

Overhead #10

The Elements of Word Analysis

Letter-sound correspondences

Advanced word analysis skills

Regular word reading

Irregular word reading

Reading in texts
Letter-Sound Correspondence

What is letter sound correspondence?

Letter-sound correspondence is:
- an understanding that words are composed of letters
- the ability to produce the sound corresponding to a letter or letter combination

Definitions

Continuous sound:
A sound that can be prolonged (stretched out) without distortion (e.g., r, s, a, m).

Stop sound:
A sound that cannot be prolonged (stretched out) without distortion (e.g., p, t, k).

Most common sound:
The sound a letter most frequently makes in a short, one-syllable word (e.g., red, blast).

Regular word:
A word in which all the letters represent their most common sound.

Use Overhead #11 to discuss the definition of letter-sound correspondence.

Use Overhead #12 to review definitions that may be helpful for teachers.
Group Activity 1

Overhead #13

• Guide participants in Group Activity 1.

Note: Refer participants to the Most Common Sounds of Single Letters handout.

Activity 1

How to Teach and Monitor Letter-Sound Correspondence

Most Common Sounds of Single Letters

After the presenter models each sound, say the sound of the letter and its sample word that is found on the Most Common Sounds of Single Letters handout.

Developing of Letter-Sound Correspondence

Developing Letter-Sound Correspondence (cont.)

• Use Overhead #14 to explain how letter-sound correspondence is developed.

(Adams, 1990.)

Overhead #14

1. Separate auditorily and/or visually similar letters (e.g., e/i, p/b).
2. Introduce some continuous sounds early (e.g., /m/, /s/).
3. Teach the sounds of letters that can be used to build many words (e.g., m, s, a, t).
4. Introduce lower case letters first unless upper case letters are similar in configuration (e.g., similar: S, s, U, u, W, w; dissimilar: R, T, F, f).

Word Analysis: Principles for Instruction and Progress Monitoring
Overhead #15

Teaching and Monitoring Letter-Sound Correspondence (cont.)

One Example Sequence for Introducing Letter-Sound Correspondences

amtsifdroglh
ucbnkvewjpy
TLMFDINARH
GBxzqJ6Q

Overhead #16

Integrating New Knowledge and Skills

Introducing Letters

• Use Overhead #15 to show one sequence for introducing letter-sound sequences.

Note: This example sequence progresses from less to more difficult.

• Use Overhead #16 to discuss how letter-sound correspondence can be further developed.

Note: Refer participants to the *Features of Well-Designed Letter-Sound Correspondence Instruction* handout.
Monitoring Letter-Sound Correspondence

- Use Overhead #17 to point out specific ways to monitor students' letter-sound correspondence knowledge.
- Refer participants to the sample measure, Letter-Sound Correspondences handout, and the sample recordkeeping form handout.

Note: You may want to model how this would appear by using a participant from the audience as a student.

Progress Monitoring

- Use Overhead #18 to explain how monitoring provides information for instruction and grouping.

Overhead #17

Monitoring Letter-Sound Correspondence Knowledge

1. Identify the letter-sounds to be taught.
2. Arrange the letter-sounds in the sequence they will be introduced during instruction.
3. Model the task on two example letter-sounds.
4. Show a row or column of letters and ask the child to tell you the "sound" of the letter. If the child tells you the name, indicate "that's the name of the letter."
5. Discontinue if a student misses five letter-sounds in a row.
6. Continue until child has completed the task or you have sufficient information about the child's knowledge of letter sounds.
7. Prepare a summary profile documenting the letter-sounds students know and do not know.

Overhead #18

Letter-Sound Correspondences Progress Monitoring

Provides information for instruction and grouping

Teacher should:
- Design flexible groupings to accommodate learners' entry performance level
- Maintain a set of "taught" letter sounds
- Monitor student performance at least once every two weeks (more often, if necessary) to evaluate progress on sounds taught
- Examine the letter-sound knowledge of students to determine letter-sound correspondences that are consistently in error
### Overhead #19

#### Teaching and Monitoring

**Regular Word Reading**

**What is regular word reading?**

Beginning decoding ("phonological decoding") is the ability to:

- read from left to right, simple, unencountered regular words
- generate the sounds for all letters
- blend sounds into recognizable words

Because our language is alphabetic, decoding is a fundamental means of recognizing words. There are simply too many words in the English language to rely on memorization as a primary word identification strategy.

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### Overhead #20

#### Definitions

**Regular Word Reading**

**Definitions**

- **Regular word**
  - A one-syllable word in which letters make their most common sound.

- **Sounding-out**
  - The process of saying each sound that represents a letter in a word without stopping between sounds.

- **Decodable text**
  - Engaging and coherent texts in which most of the words are comprised of an accumulating sequence of letter-sound correspondences being taught.
  - Effective decodable texts contain some sight words that allow for the development of more interesting stories.
Instructional materials must be carefully designed based on:

- letters in words
- complexity of words

Letters in words for initial blending (sounding-out) instruction should:

- consist of continuous sounds (e.g., m, s)
- be familiar
- be visually and auditorily dissimilar (i.e., do not teach /b/ and /d/ together)
- occur in a large number of words so they will be of high utility
- be lower case unless upper and lower case are highly similar shapes (e.g., S s; Vv)

Words in blending (sounding out) and sight-word instruction:

- progresses from short VC and CVC (2- or 3-letter) words to longer words (4- or 5-letter) in which letters represent their most common sounds
- reserves consonant blends (e.g., /bl/, /br/, /pl/) until students are proficient with CVC words
- begins with continuous sounds in early exercises to facilitate blending
- uses stop sounds only initially in final positions of words
- represents familiar vocabulary and concepts
Group Activity 2

Introduce Words According to Complexity

Use the handout Introducing Words According to Complexity table to determine a recommended sequence for introducing the following words:

- stamp
- cat
- tag
- split
- skunk
- hot
- must
- am
- if
- him
- glad
- drop
- hand
- skin
- Sam
- mad
- hot
- last
- step
- hats
- strap

Overhead #24

Progression of Regular Word Reading

Sounding Out
saying each individual sound out loud

Sounding it Out and Pronouncing the Whole Word
saying each individual sound and pronouncing the whole word

Internalising the Blending Process
sounding out the word in your head and saying the whole word

• Use Overhead #24 to illustrate a beginning sequence of blending instruction.
• Tell participants that this is for beginning readers.
Step One of Blending Instruction

- Use Overhead #25 to explain the steps of how to teach sounding out individual letter-sounds in regular words.

Note: Tips to Remember:
- Don't stop between sounds
- Don't distort sounds as they are stretched out
- Emphasize that stop sounds should be quick and not stretched out.

Step Two of Blending Instruction

- Use Overhead #26 to discuss how to teach sounding out and reading whole words.

Overhead #25

Regular Word Reading Sequence of Blending Instruction

Step One:
Sounding Out Individual Letter-Sounds in Regular Words

- Model the process of blending the sounds in the word
- Use your finger or hand to track each letter as you say each sound
- Hold each sound long enough for children to hear it individually
- Provide a relatively brief instructional segment (e.g., 5-10 minutes) in the daily reading/language arts lesson

Overhead #26

Regular Word Reading Sequence of Blending Instruction (cont.)

Step Two:
Sounding Out and Reading the Whole Word

- Introduce a step where students say the word at a regular pace after students can blend the sounds in a word:
  Students orally blend the individual letter sounds in the word and then say the whole word
- Provide sufficient time for students to "put the sounds together"
Step One:
Sounding Out Individual Letter-Sounds in Regular Words

- Model the process of blending the sounds in the word
- Use your finger or hand to track each letter as you say each sound
- Hold each sound long enough for children to hear it individually
- Provide a relatively brief instructional segment (e.g., 5-10 minutes) in the daily reading/language arts lesson

Overhead #27

Step Three of Blending Instruction

- Use Overhead #28 to explain how to teach students to internalize the blending process.
- Refer participants to the Features of Well-Designed Word Recognition Instruction handout.

Overhead #28

Monitoring Regular Word Reading

Teacher should...
1. Identify student knowledge of letter-sounds and word types (length and consonant vowel configurations) for use in initial sounding-out instruction.
2. Develop a list of words likely to be read over the course of the year.
3. Maintain a set of "taught" letter sounds and word types.
4. Monitor student performance at least once every two weeks on words containing familiar letter-sounds to evaluate progress.
5. Record letter-sounds, blending patterns (e.g., stopping between sounds, not being able to read whole words), or word types with which students have difficulty.

Word Analysis: Principles for Instruction and Progress Monitoring
Word Reading in Passages

- Use Overhead #29 to explain the importance of learning to read words in passages.

Developing Word Reading in Passages

- Use Overhead #30 to discuss ways in which to develop word reading in passages.

Overhead #29

Teaching and Monitoring Word Reading in Texts

A primary goal of beginning reading instruction is to prepare students to read texts fluently so that they are able to construct meaning as they read.

Overhead #30

Developing Word Reading in Texts

As a general rule...

- introduce reading in text after students can sound out regular words in 3 seconds or less on the first reading
- provide initial practice in decodable text in which students can apply their newly learned skills successfully (include only words students can decode)
- include repeated opportunities to read words in texts to develop accuracy and fluency
- encourage students to use the sounding out strategy to figure out the words of a text by saying the sounds in the word to themselves (generally lasts 1-2 weeks)
- progress to having students figure out the words without saying the sounds
Overhead #31

Monitoring Word Reading in Passages

When students are reading words at a rate of one every 1.5 to 2 seconds...

- begin monitoring passages weekly
- select the passage students have been practicing
- give directions: "I want you to read this passage using your "best" reading"
- record the number and types of errors and the time it took to read the passage

Overhead #32

Teaching and Monitoring Irregular Word Recognition

What are irregular words?

Although decoding is a highly reliable strategy for a majority of words, some irregular words in the English language do not conform to word-analysis instruction (e.g., the, was, night).

Monitoring Word Reading in Texts

- Use Overhead #31 to explain how to monitor word reading in passages.
- Point out that students should be reading words at a rate of 1 word every 3 seconds.
- Refer participants to the Features of Well-Designed Word Reading in Passages handout.

Irregular Word Reading

- Use Overhead #32 to define irregular words.
- Explain that decodable words that contain unfamiliar letter-sound correspondences are also referred to as irregular words.
Developing Irregular Word Recognition

- Use Overhead #33 to address how to develop irregular word reading.
- Point out the importance of introducing irregular words after students can reliably decode words at a rate of about one letter-sound per second.
- Refer participants to the Features of Well-Designed Irregular Word Reading Instruction handout.

Monitoring Irregular Word Reading

- Use Overhead #34 to discuss ways in which to monitor irregular word reading.
- Refer participants to the New and Review Skills handout.

Overhead #33

1. Select words that have high utility (i.e., used frequently in grade-appropriate literature and informational text)
2. Sequence high frequency irregular words to avoid potential confusion (i.e., they/ them; was/saw)
3. Base the number of irregular words introduced at one time on student performance
4. Try to introduce irregular words at least 1 lesson prior to their appearance in texts
5. Provide a brief, cumulative review as part of daily reading instruction (2-3 minutes)
6. Identify irregular words with common parts and teach as word families (i.e., -ight: night, right, fight; -one: done, none)

Overhead #34

Teacher
- Maintains a list of taught words
- Monitors student knowledge in word lists and in connected text
- Asks students to read words
- Records particular words and patterns of words with which students exhibit difficulty reading
Advanced Word Analysis skills include:
- Letter combinations (e.g., /ee/ as in the words bee, greet, keep, and indeed)
- Words that contain a VCe pattern (e.g., make, bite, hole)
- VCe derivatives (e.g., rates, named, hoping)

Advanced word analysis skills require students to:
- Know the common sounds of approximately 20 single letters
- Decode texts made up of regular words at a speed at least 20 words per minute
- Identify 6 to 8 letter combinations and words that contain these combinations

Knowledge of advanced word analysis skills is essential if students are to progress in their knowledge of the alphabetic writing system and gain the ability to read fluently and broadly.
Definitions

- Use Overhead #37 to review the terms.

Overhead #37

Advanced Word Analysis

Definitions

Letter combination
A group of consecutive letters that represents a particular sound(s) in the majority of words in which it appears

VCE pattern word
Word pattern in which a single vowel is followed by a consonant, which, in turn, is followed by a final e (i.e., lake, stripe, and smile)

Part I: Knowledge of Letter Combinations

- Use Overhead #38, #39 and #40 to address how to develop knowledge of letter combinations.

Overhead #38

Developing Advanced Word Analysis

Part I:
Knowledge of Letter Combinations

1. Introduce and teach letter combinations that represent sound relationships that are the most common in primary grade literature (i.e., the letter combination /ph/ appears in a large number of words, but many of these words are not commonly found in primary grade books; /oll/ appears in relatively few words, but the words are very common (e.g., cold, hold, told)

2. Separate letter combinations that are auditorily and visually similar
   (i.e., the following letter combinations should be separated: /sh/ and /ch/; /ou/, /oal/, and /oul/; r-controlled vowels such as /ar/, /er/, and /or/)

Word Analysis: Principles for Instruction and Progress Monitoring
Overhead #39

Developing Advanced Word Analysis (con't)

Part I:
Knowledge of Letter Combinations (con't)

3. The following letter combination pairs may be taught in the same teaching sequence:
   - ee and ea
   - nt and ny
   - ir and ur
   - oi and ay
   - ou and aw

4. Use letter combinations that can be used to build words.

Overhead #40

Developing Advanced Word Analysis (con't)

Part I:
Knowledge of Letter Combinations (con't)

Sample sequence for introducing letter combinations

<table>
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Note: Be sure to inform participants that letter combination pairs are taught together; not all the letter combinations listed should be taught at once.

Knowledge of Letter Combinations (con't)
Group Activity 3

Note: Refer participants to the Letter Combinations handout.

Activity 3

How to Teach and Monitor Advanced Word Analysis

Letter Combinations

After the presenter models the sound of each letter combination on the Letter Combinations Table, pronounce the sample word that contains that sound.

(Remember to not add the "schwa" sound to the end of letter combinations)

Part II: Development of VCe Pattern Knowledge

• Use Overhead #42 to explain how to develop VCe pattern knowledge.

Note: Participants should be familiar with the VCe and CVC word types. General rules can be taught as basic strategies for reading pattern words; introduce strategies after students can identify 6 to 8 letter combinations and decode words containing those combinations. Delay introducing VCe pattern words with either e or u as the initial vowel.

Overhead #42

Developing Advanced Word Analysis (cont.)

Part II: Words with a VCe Pattern

1. Students should be able to discriminate vowel letter names from vowel letter sounds before VCe pattern words are introduced.
2. In the beginning, the teacher presents a rule and leads students through decoding VCe pattern words.
3. A discrimination format may be as follows:

<table>
<thead>
<tr>
<th>3 CVCe Words</th>
<th>3 CVC Words</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(pin)</td>
</tr>
<tr>
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<td>(tap)</td>
</tr>
<tr>
<td>With e as the initial vowel (rode)</td>
<td>(red)</td>
</tr>
</tbody>
</table>

4. The list should be constructed in an unpredictable order.
**Overhead #43**

**Monitoring Advanced Word Analysis**

**Part I:**
Knowledge of Letter Combinations

1. Maintain a list of taught letter combinations
2. Periodically have students read a list of words including taught letter combinations
3. Record letter combinations which students show significant difficulty

**Part II:**
Words with a VCe Pattern

1. Periodically have students read a list of VCe and CVC words.
2. Record words with which students show significant difficulty.

---

**Overhead #44**

**Integration of Beginning Reading**

| Phonemic Awareness: Letter Sounds | Sounding Out → Sight Reading |
| Regular Word Reading: Prompted → Sight Reading |
| Irregular Word Reading: List Complete → More Complex |
| Advanced Word Recognition Skills: Letter Combinations |
| Advanced Reading in Texts: Decodable → Less Controlled |
| Fluency: K 1 2 3 ++ |

---

**Monitoring Advanced Word Recognition**

- Use Overhead #43 to explain ways in which to monitor knowledge of letter combinations and words with the VCe pattern.
- Refer participants to the Features of Well-Designed Letter Combination Instruction handout.

**Summing Up**

- Use Overhead #44 to discuss the continuum of beginning reading skills and conclude the workshop.
- Remind participants that many of the elements of beginning reading may be learned simultaneously but that more advanced elements (e.g., structural analysis) are dependent on less advanced elements (e.g., letter-sound knowledge).

**Note:** Throughout early reading instruction children should be encouraged to read connected texts and should be read to often.
3. Overheads
Word Analysis

Principles for Instruction and Progress Monitoring

Texas Center for Reading and Language Arts
University of Texas, College of Education
Texas Education Agency • Region XIII Education Service Center
Agenda

- Research and knowledge base of beginning reading

- Teaching children to read words

- Teaching and monitoring:
  - Letter-sound correspondences
  - Regular word reading
  - Word reading in texts
  - Irregular word reading
  - Advanced word analysis
Participants will be able to:

1. Understand the components and requirements of teaching children to read in an alphabetic writing system.

2. Understand and describe the five essential skills of beginning word analysis.

3. Deliver instructional strategies for teaching children to read words and connected texts.

4. Monitor student performance on selected beginning reading skills and recommend a specific plan of instruction.
Successful readers...

- rely primarily on the letters in the word rather than context or pictures to identify familiar and unfamiliar words
- process virtually every letter
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- have a reliable strategy to decode words
- read words a sufficient number of times for words to become "automatic"
In the following graphic you see two trajectories of children's word reading performance across grades 1 through 6. The data are the result of a task where children read words from a common word list.

(Good, Simmons, & Smith, 1998)
**How do good and poor readers differ?**

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*(Allington, 1984.)*
Definitions

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The process of translating printed words into letter-sound correspondences and blending the sounds into words.
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- Strength of the individual strands
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Grade 1:
English Language Arts and Reading

The student uses letter-sound knowledge to decode written language

The student is expected to:

- Read
- Apply
- Identify
- Learn
- Recognize
- Understand
- Blend
- Decode
Teaching Children to Read Words

The Elements of Word Analysis

Letter-sound correspondences

Advanced word analysis skills

Irregular word reading

Regular word reading

Reading in texts
Letter-sound correspondence is:

- an understanding that words are composed of letters
- the ability to produce the sound corresponding to a letter or letter combination
Definitions

Continuous sound:
A sound that can be prolonged (stretched out) without distortion (e.g., r, s, a, m).

Stop sound:
A sound that cannot be prolonged (stretched out) without distortion (e.g., p, t, k).

Most common sound:
The sound a letter most frequently makes in a short, one syllable word (e.g., red, blast).

Regular word:
A word in which all the letters represent their most common sound.
How is letter-sound correspondence developed?

1. Separate auditorily and/or visually similar letters (e.g., e/i, p/b).
2. Introduce some continuous sounds early (e.g., /m/, /s/).
3. Teach the sounds of letters that can be used to build many words (e.g., m, s, a, t).
4. Introduce lower case letters first unless upper case letters are similar in configuration (e.g., similar: S,s, U,u, W, w; dissimilar: R, r; T, t, F, f).
Teaching and Monitoring Letter-Sound Correspondence (con't.)

One Example Sequence for Introducing Letter-Sound Correspondences

a m t s i f d r o g l h u c b n k v e w j p y

T L M F D I N A R H G B x q z J E Q
Once students can identify the sound of the letter reliably...

...have students discriminate the new letter-sound correspondence from known letter sounds.

When students can identify a few letter-sound correspondences quickly,

...include these letters in single-syllable, CVC, decodable words.
1. Identify the letter-sounds to be taught.
2. Arrange the letter-sounds in the sequence they will be introduced during instruction.
3. Model the task on two example letter-sounds.
4. Show a row or column of letters and ask the child to tell you the “sound” of the letter. If the child tells you the name, indicate “that’s the name of the letter.”
5. Discontinue if a student misses five letter-sounds in a row.
6. Continue until child has completed the task or you have sufficient information about the child’s knowledge of letter sounds.
7. Prepare a summary profile documenting the letter-sounds students know and do not know.
Provides information for instruction and grouping

Teacher should:

• Design flexible groupings to accommodate learners' entry performance level
• Maintain a set of “taught” letter sounds
• Monitor student performance at least once every two weeks (more often, if necessary) to evaluate progress on sounds taught
• Examine the letter-sound knowledge of students to determine letter-sound correspondences that are consistently in error
Beginning decoding ("phonological recoding") is the ability to:

- read from left to right, simple, unencountered regular words
- generate the sounds for all letters
- blend sounds into recognizable words

Because our language is alphabetic, decoding is a fundamental means of recognizing words. There are simply too many words in the English language to rely on memorization as a primary word identification strategy.
Regular Word Reading

Definitions

Regular word
• A one-syllable word in which letters make their most common sound.

Sounding-out
• The process of saying each sound that represents a letter in a word without stopping between sounds.

Decodable text
• Engaging and coherent texts in which most of the words are comprised of an accumulating sequence of letter-sound correspondences being taught.
• Effective decodable texts contain some sight words that allow for the development of more interesting stories.
How is regular word reading developed?

Instructional materials must be carefully designed based on:

- letters in words
- complexity of words

Letters in words for initial blending (sounding-out) instruction should:

- consist of continuous sounds (e.g., m, s)
- be familiar
- be visually and auditorily dissimilar (i.e., do not teach /b/ and /d/ together)
- occur in a large number of words so they will be of high utility
- be lower case unless upper and lower case are highly similar shapes (e.g., S s; Vv)
Words in blending (sounding out) and sight-word instruction:

- progresses from short VC and CVC (2- or 3-letter) words to longer words (4- or 5-letter) in which letters represent their most common sounds
- reserves consonant blends (e.g., /st/, /tr/, /pl/) until students are proficient with CVC words
- begins with continuous sounds in early exercises to facilitate blending
- uses stop sounds only initially in final positions of words
- represents familiar vocabulary and concepts
Progression of Regular Word Reading

Sounding Out

saying each individual sound out loud

Sounding it Out and Pronouncing the Whole Word

saying each individual sound and pronouncing the whole word

Internalizing the Blending Process

sounding out the word in your head and saying the whole word
Step One:
Sounding Out Individual Letter-Sounds in Regular Words

- Model the process of blending the sounds in the word
- Use your finger or hand to track each letter as you say each sound
- Hold each sound long enough for children to hear it individually
- Provide a relatively brief instructional segment (e.g., 5-10 minutes) in the daily reading/language arts lesson
Step Two: Sounding Out and Reading the Whole Word

- Introduce a step where students say the word at a regular pace after students can blend the sounds in a word:

  Students orally blend the individual letter sounds in the word and then say the whole word.

- Provide sufficient time for students to “put the sounds together”
Step Three:
Internalizing the Blending Process

Students...
• sound out the word to themselves and then say the whole word

Teachers...
• show students how to internalize the blending process
• model the process by tracing their finger under each sound and subvocalize the sounds of the word
• provide sufficient time for all students to blend the word in their heads
Teacher should...

1. Identify student knowledge of letter-sounds and word types (length and consonant vowel configuration) for use in initial sounding-out instruction.

2. Develop a list of words likely to be read over the course of the year.

3. Maintain a set of “taught” letter sounds and word types.

4. Monitor student performance at least once every two weeks on words containing familiar letter-sounds to evaluate progress.

5. Record letter-sounds, blending patterns (e.g., stopping between sounds, not being able to read whole words), or word types with which students have difficulty.
A primary goal of beginning reading instruction is to prepare students to read texts fluently so that they are able to construct meaning as they read.
As a general rule...

- introduce reading in text after students can sound out regular words in 3 seconds or less on the first reading
- provide initial practice in decodable text in which students can apply their newly learned skills successfully (include only words students can decode)
- include repeated opportunities to read words in texts to develop accuracy and fluency
- encourage students to use the sounding out strategy to figure out the words of a text by saying the sounds in the word to themselves (generally lasts 1-2 weeks)
- progress to having students figure out the words without saying the sounds
When students are reading words at a rate of one every 1.5 to 2 seconds...

- begin monitoring passages weekly
- select the passage students have been practicing
- give directions: "I want you to read this passage using your "best" reading"
- record the number and types of errors and the time it took to read the passage
Although decoding is a highly reliable strategy for a majority of words, some irregular words in the English language do not conform to word-analysis instruction (e.g., the, was, night).
1. Select words that have high utility (i.e., used frequently in grade-appropriate literature and informational text)

2. Sequence high frequency irregular words to avoid potential confusion (i.e., they/them; was/saw)

3. Base the number of irregular words introduced at one time on student performance

4. Try to introduce irregular words at least 1 lesson prior to their appearance in texts

5. Provide a brief, cumulative review as part of daily reading instruction (2-3 minutes)

6. Identify irregular words with common parts and teach as word families (i.e., -ight: night, right, fight; -one: done, none)
Teacher...

- Maintains a list of taught words
- Monitors student knowledge in word lists and in connected text
- Asks students to read words
- Records particular words and patterns of words with which students exhibit difficulty reading
Advanced word analysis skills include:

- Letter combinations (e.g., /ee/ as in the words bee, greet, keep, and indeed)
- Words that contain a VCe pattern (e.g., make, bite, hole)
- VCe derivatives (e.g., rates, named, hoping)

Advanced word analysis skills require students to:

- Know the common sounds of approximately 20 single letters
- Decode texts made up of regular words at a speed at least 20 words per minute
- Identify 6 to 8 letter combinations and words that contain these combinations
Knowledge of advanced word analysis skills is essential if students are to progress in their knowledge of the alphabetic writing system and gain the ability to read fluently and broadly.
Definitions

Letter combination
A group of consecutive letters that represents a particular sound(s) in the majority of words in which it appears

VeCe pattern word
Word pattern in which a single vowel is followed by a consonant, which, in turn, is followed by a final e (i.e., lake, stripe, and smile)
1. Introduce and teach letter combinations that represent sound relationships that are the most common in primary grade literature

(i.e., the letter combination /ph/ appears in a large number of words, but many of these words are not commonly found in primary grade books; /ol/ appears in relatively few words, but the words are very common (e.g., cold, hold, told)

2. Separate letter combinations that are auditorily and visually similar

(i.e., the following letter combinations should be separated: /sh/ and /ch/; /oa/, /or/, /oo/, and /ou/; r-controlled vowels such as /ar/, /ur/, and /or/)
Part I:
Knowledge of Letter Combinations (con't.)

3. The following letter combination pairs may be taught in the same teaching sequence:

- *ee and ea*
- *ai and ay*
- *ir and ur*
- *oi and oy*
- *au and aw*

4. Use letter combinations that can be used to build words.
Part I:
Knowledge of Letter Combinations (con't.)

Sample sequence for introducing letter combinations

<table>
<thead>
<tr>
<th>1. th</th>
<th>10. ea</th>
<th>19. ir</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. er</td>
<td>11. oo</td>
<td>20. ur</td>
</tr>
<tr>
<td>3. ing</td>
<td>12. ee</td>
<td>21. kn</td>
</tr>
<tr>
<td>4. sh</td>
<td>13. ai</td>
<td>22. oi</td>
</tr>
<tr>
<td>5. wh</td>
<td>14. ch</td>
<td>23. oy</td>
</tr>
<tr>
<td>6. qu</td>
<td>15. or</td>
<td>24. ph</td>
</tr>
<tr>
<td>7. ol</td>
<td>16. ay</td>
<td>25. wr</td>
</tr>
<tr>
<td>8. oa</td>
<td>17. igh</td>
<td>26. au</td>
</tr>
<tr>
<td>9. ar</td>
<td>18. ou</td>
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Part II:
Words with a VCe Pattern

1. Students should be able to discriminate vowel letter names from vowel letter sounds before VCe pattern words are introduced.

2. In the beginning, the teacher presents a rule and leads students through decoding VCe pattern words.

3. A discrimination format may be as follows:

   3 CVCe Words   3 CVC Words

   With i as an initial vowel  (pine)   (pin)
   With a for the initial vowel (tape)   (tap)
   With o for the initial vowel (rode)   (rod)

4. The list should be constructed in an unpredictable order.
Part I: Knowledge of Letter Combinations

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The student is expected to:

- Read
- Apply
- Identify
- Name
- Recognize
- Learn
- Blend
- Understand
- Decode
4. Handouts
The student uses letter-sound knowledge to decode written language.

The student is expected to:

a) name and identify each letter of the alphabet;
b) understand that written words are composed of letters that represent sounds;
c) learn and apply letter-sound correspondences of a set of consonants and vowels to begin to read;
d) learn and apply the most common letter-sound correspondences, including the sounds represented by single letters (consonants and vowels); consonant blends such as bl, st, tr; consonant digraphs such as th, sh, ck; and vowel digraphs and diphongs such as ea, ie, ee;
e) blend initial letter-sounds with common vowel spelling patterns to read words;
f) decode by using all letter-sound correspondences within regularly spelled words; and
g) use letter-sound knowledge to read decodable texts.

The student uses a variety of word identification strategies.

The student is expected to:

a) decode by using all letter-sound correspondences within a work;
b) use common spelling patterns to read words;
c) use structural cues to recognize words such as compounds, base words, and inflections such as -s, -es, -ed, and -ing;
d) identify multisyllabic words by using common syllable patterns;
e) recognize high frequency irregular words such as said, was, where, and is;
f) use knowledge of word order (syntax) and context to support word identification and confirm word meaning; and
g) read both regular and irregular words automatically such as through multiple opportunities to read and reread.
## Most Common Sounds of Single Letters

*(Carnine, Silbert, & Kame'enui, 1997.)*

<table>
<thead>
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<th>Stop Sounds</th>
</tr>
</thead>
<tbody>
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<td>b (boy)</td>
</tr>
<tr>
<td>e (bet)</td>
<td>c (can)</td>
</tr>
<tr>
<td>f (fill)</td>
<td>d (did)</td>
</tr>
<tr>
<td>i (sit)</td>
<td>g (got)</td>
</tr>
<tr>
<td>l (let)</td>
<td>h (his)</td>
</tr>
<tr>
<td>m (mad)</td>
<td>j (jet)</td>
</tr>
<tr>
<td>n (nut)</td>
<td>k (kiss)</td>
</tr>
<tr>
<td>o (not)</td>
<td>p (pet)</td>
</tr>
<tr>
<td>r (rat)</td>
<td>q (quit)</td>
</tr>
<tr>
<td>s (sell)</td>
<td>t (top)</td>
</tr>
<tr>
<td>u (cut)</td>
<td>x (fox)</td>
</tr>
<tr>
<td>v (vet)</td>
<td></td>
</tr>
<tr>
<td>y (yes)</td>
<td></td>
</tr>
<tr>
<td>z (zoo)</td>
<td></td>
</tr>
</tbody>
</table>
Features of Well-Designed Letter-Sound Correspondence Instruction

- Confusing sounds are separated over several lessons (p/b/d; e/i/m/n).
- Letter-sounds that occur in a large number of words are introduced early.
- The rate of letter-sound correspondence introduction is manageable for the learner but adequate to allow multiple words to be made within 2-3 weeks. While there are no definitive guidelines for scheduling letter-sound correspondences, a rate of introducing one new letter-sound correspondence every 2-3 days is reasonable.
- The sequence includes a few short vowels early to allow students to build words.
- The sequence begins with several continuous sounds.
- Newly introduced and problematic letter sounds are reviewed cumulatively.
- Upper and lower case letters that are similar (S s, P, p; C c) are introduced before ones that are different (T, t). For dissimilar letters, withhold introducing the uppercase letter till later in the sequence.
- Students are taught to use letter-sounds in simple word reading as soon as students have a corpus of letter sounds (4-6) from which to build words.
Letter-Sound Correspondences

This sample measure assesses children's knowledge of letter-sound correspondences. It is administered individually. Students see the letters (see large print) and say the sound that corresponds to the letter.

Materials

1. Student copy of alphabet.
2. Examiner copy of alphabet (recording form)
3. Stopwatch
4. Pencil

Directions for Administration

1. Place the student copy of the alphabet in front of the student.
2. Place the examiner record form in front of you, but shielded so the student cannot see what you record.
3. Say these specific directions to the student:

   "When I say start, begin here (point to the first letter), go across the page (point from left to right), and tell me the sound each letter makes. Try to name each sound. If you come to a sound you do not know, I will tell it to you. Do you have any questions?"

   "Let's try a practice one. The sound of this letter is /rrr/. What is the sound of the letter?" (Have child tell the sound.) If the child says the letter name, say "That's the name of the letter. Tell me the sound of the letter." (If the child still says the letter name, say "The sound of the letter is /rrr/").

   "Let's try another practice one. The sound of this letter is /e/ [Teacher Note: e as in egg]. What's the sound of this letter?" (Have child tell the sound.) If the child says the letter name, say "That's the name of the letter. Tell me the sound of the letter." (If the child still says the letter name, say "The sound of the letter is /e/".)
Letter-Sound Correspondences (con't.)

1. “Now let’s begin. Remember to tell me the sound of the letter.” Say, “Start” and begin the stopwatch. If the student fails to say the first sound, tell him/her the sound and mark it as incorrect and continue.

2. Follow along on your copy. If the child says the sound incorrectly, put a slash (/) through it.

3. If a student stops or struggles with a sound for 3 seconds, tell the student the sound and mark it as incorrect.

4. If the student says the name of the letter, say, “Yes, that’s the name, can you tell me the sound?”

5. At the end of 1 minute, say “Stop” and put a double slash (//) after the last sound correctly identified. If the child completes the sequence of letter sounds before one minute, record the time in seconds and write the time at the top of the page.

Scoring

- Count the number of correctly identified letter-sound correspondences in 1 minute.

- For instructional purposes, transfer the information from the scoring sheet to the summary record form that has a row for each student.

(Modified from Carnine, Silbert, & Kameenui, 1997; Kaminski & Good, 1998.)
Letter-Sound Correspondences (con't.)

Rapid Letter Naming
Teacher Recording Form

Student Name: ________________________________
Date: ____________________________
Classroom: ________________ Total LSCPM: _______

a m t s l f

d r o g l h

u c b n k v

e w j p y x

q z m s f d

o g l u n e

p y x q w j

v k b u l o

f s m z
Letter-Sound Correspondences (con't.)

Rapid Letter Naming
Student Recording Form

Practice
r e

<table>
<thead>
<tr>
<th>a</th>
<th>m</th>
<th>t</th>
<th>s</th>
<th>l</th>
<th>f</th>
</tr>
</thead>
<tbody>
<tr>
<td>d</td>
<td>r</td>
<td>o</td>
<td>g</td>
<td>l</td>
<td>h</td>
</tr>
<tr>
<td>u</td>
<td>c</td>
<td>b</td>
<td>n</td>
<td>k</td>
<td>v</td>
</tr>
<tr>
<td>e</td>
<td>w</td>
<td>j</td>
<td>p</td>
<td>y</td>
<td>x</td>
</tr>
<tr>
<td>q</td>
<td>z</td>
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<td>s</td>
<td>f</td>
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<td>u</td>
<td>n</td>
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<td>x</td>
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<td>w</td>
<td>j</td>
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<td>v</td>
<td>k</td>
<td>b</td>
<td>u</td>
<td>l</td>
<td>o</td>
</tr>
<tr>
<td>f</td>
<td>s</td>
<td>m</td>
<td>z</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

89
### Activity 2

**Introduce Words According to Complexity**

Use the handout *Introducing Words According to Complexity* table to determine a recommended sequence for introducing the following words:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>stamp</td>
<td>if</td>
<td>hot</td>
</tr>
<tr>
<td>cat</td>
<td>him</td>
<td>last</td>
</tr>
<tr>
<td>tag</td>
<td>glad</td>
<td>step</td>
</tr>
<tr>
<td>split</td>
<td>drop</td>
<td>hats</td>
</tr>
<tr>
<td>skunk</td>
<td>hand</td>
<td>strap</td>
</tr>
<tr>
<td>hot</td>
<td>skin</td>
<td></td>
</tr>
<tr>
<td>must</td>
<td>Sam</td>
<td></td>
</tr>
<tr>
<td>am</td>
<td>mad</td>
<td></td>
</tr>
</tbody>
</table>
### Introducing Words According to Complexity

<table>
<thead>
<tr>
<th>Word Type</th>
<th>Reason for Relative Difficulty/Ease</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC and CVC words that begin with continuous sounds.</td>
<td>Words begin with a continuous sound.</td>
<td>it, fan</td>
</tr>
<tr>
<td>VCC and CVCC words that begin with a continuous sound.</td>
<td>Words are longer and end with a consonant blend.</td>
<td>lamp, ask</td>
</tr>
<tr>
<td>CVC words that begin with a stop sound.</td>
<td>Words begin with a stop sound.</td>
<td>cup, tin</td>
</tr>
<tr>
<td>CVCC words that begin with a stop sound.</td>
<td>Words begin with stop sound and end with a consonant blend.</td>
<td>dust, hand</td>
</tr>
<tr>
<td>CCVC</td>
<td>Words begin with a consonant blend.</td>
<td>crib, blend, snap, flat</td>
</tr>
<tr>
<td>CCVCC, CCCVC, and CCCVCC</td>
<td>Words are longer.</td>
<td>clamp, spent, scrap, scrimp</td>
</tr>
</tbody>
</table>
Features of Well-Designed
Regular Word Reading Instruction

1. "Sounding out" strategy is taught explicitly.
2. Words to be decoded contain only known letter- or letter-sound combinations.
3. The instructional sequence progresses systematically from simple word types (consonant-vowel-consonant) and word lengths (number of phonemes), and word complexity (phonemes in the word, position of blends, stop sounds, etc) to more complex words.
4. Instruction progresses from sounding out to "whole word."
5. Teacher models instruction at each of the fundamental stages (e.g., letter-sound correspondences, blending, reading whole words).
Regular Word Reading

This sample measure assesses children's ability to apply letter-sound correspondence knowledge to regular word reading.

Materials
1. Student copy of word list
2. Examiner copy of word list (recoding form)
3. Pencil

Directions for Administration
1. Place the student copy of the words in front of the student.
2. Place the examiner record form in front of you, but shielded so that student cannot see what you record
3. Say these specific directions to the student:
   "I want you to begin here (point to the first word), go down the page (point top to bottom) and then go to the top of the next column (point to #2). Tell me each word. Try to read each word. If you come to a word you do not know, I will tell it to you. Do you have any questions?"
4. If the student fails to say the first word, tell him/her the word and mark it as incorrect.
5. Follow along on your copy. If the child says the word incorrectly, put a slash (/) through it.
6. If a student stops or struggles with a word for 5 seconds, tell the student the word and mark it as incorrect.
7. If the child makes five consecutive errors, discontinue this measure.

Scoring
Count the number of correctly identified words. Record the number on the total. Examine the types of errors and word types for which children are experiencing difficulty.

For instructional purposes, transfer the information from the scoring sheet to the summary record form that has a row for each student.
it cat must flag stamp
am him hats step strap
if hot hand drop split
Sam tag last skin skunk
mad
Features of Well-Designed Instruction for Word Reading in Texts

- Introduces reading in texts early so that students see the utility of word reading.
- Helps students make the transition from reading words in lists to reading words in connected texts.
- Uses texts that contain words with "known" letter sounds and word types and familiar words.
- Takes difficult words out of the text and reviews them in lists. Has students reread sentences in which words are missed.
- Ensures that students have individual turns.
- Increases students' reading fluency.
Features of Well-Designed
Irregular Word Reading Instruction

- Teaches irregular words prior to their use in texts.
- Limits the number of irregular words introduced per text.
- Provides a review sequence to practice difficult irregular words.
- Includes an explicit strategy for teaching irregular words.
How to Teach and Monitor Irregular Word Recognition
New and Review Skills

Week of: ____________________
Class Period: ________________

<table>
<thead>
<tr>
<th>Day</th>
<th>Day</th>
<th>Day</th>
<th>Day</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>New letter-sounds</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review letter-sounds</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New word type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review word type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New irregular words</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review irregular words</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
### Letter Combinations

<table>
<thead>
<tr>
<th>Letter Combination</th>
<th>Sample Word</th>
<th>Percentage</th>
<th>Frequency</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ai a</td>
<td>maid</td>
<td>90%</td>
<td>254</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>al b</td>
<td>halt</td>
<td>NA</td>
<td>NA</td>
<td>l-controlled</td>
</tr>
<tr>
<td>ar</td>
<td>car</td>
<td>75%</td>
<td>518</td>
<td>r-controlled</td>
</tr>
<tr>
<td>au</td>
<td>haul</td>
<td>94%</td>
<td>146</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>aw</td>
<td>lawn</td>
<td>100%</td>
<td>75</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>ay</td>
<td>stay</td>
<td>97%</td>
<td>131</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>ch</td>
<td>chip</td>
<td>63%</td>
<td>313</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>ea a</td>
<td>beat</td>
<td>60%</td>
<td>294</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>ee a</td>
<td>need</td>
<td>98%</td>
<td>285</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>er</td>
<td>fern</td>
<td>97%</td>
<td>313</td>
<td>r-controlled</td>
</tr>
<tr>
<td>igh</td>
<td>high</td>
<td>100%</td>
<td>88</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>ir</td>
<td>first</td>
<td>100%</td>
<td>104</td>
<td>r-controlled</td>
</tr>
<tr>
<td>kn</td>
<td>know</td>
<td>100%</td>
<td>41</td>
<td>consonant digraph</td>
</tr>
<tr>
<td>oa</td>
<td>load</td>
<td>94%</td>
<td>126</td>
<td>vowel digraph</td>
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<tr>
<td>ol b</td>
<td>hold</td>
<td>NA</td>
<td>NA</td>
<td>l-controlled</td>
</tr>
<tr>
<td>oo</td>
<td>boot</td>
<td>59%</td>
<td>173</td>
<td>vowel digraph</td>
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<tr>
<td>or</td>
<td>short</td>
<td>55%</td>
<td>312</td>
<td>r-controlled</td>
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<tr>
<td>ou</td>
<td>cloud</td>
<td>84%</td>
<td>285</td>
<td>vowel dipthong</td>
</tr>
<tr>
<td>ow</td>
<td>own</td>
<td>50%</td>
<td>124</td>
<td>vowel digraph</td>
</tr>
<tr>
<td>oy</td>
<td>toy</td>
<td>98%</td>
<td>48</td>
<td>vowel dipthong</td>
</tr>
<tr>
<td>ph</td>
<td>phone</td>
<td>100%</td>
<td>242</td>
<td>consonant digraph</td>
</tr>
<tr>
<td>qu</td>
<td>quick</td>
<td>100%</td>
<td>191</td>
<td>none</td>
</tr>
<tr>
<td>sh</td>
<td>shop</td>
<td>100%</td>
<td>398</td>
<td>consonant digraph</td>
</tr>
<tr>
<td>th c</td>
<td>thank</td>
<td>74%</td>
<td>411</td>
<td>consonant digraph</td>
</tr>
<tr>
<td>ur</td>
<td>burn</td>
<td>100%</td>
<td>203</td>
<td>r-controlled</td>
</tr>
<tr>
<td>w</td>
<td>whale</td>
<td>85%</td>
<td>89</td>
<td>consonant digraph</td>
</tr>
<tr>
<td>h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>wr</td>
<td>wrap</td>
<td>100%</td>
<td>48</td>
<td>consonant digraph</td>
</tr>
</tbody>
</table>

(Carnine, Silbert, & Kame'enui, 1997.)
Features of Well-Designed
Letter-Combination Instruction

- Separates easily confused letter combinations in the scope and sequence of
  the program (e.g., sh/ch; oa/oi/oo/ou; r-controlled vowels).
- Introduces letter combinations that occur in a large number of words early in
  the program.
- Manages the rate of introducing letter combinations for the learner to allow
  reasonable progress.
- Reviews newly introduced and problematic letter combinations cumulatively
  and systematically.
- Teaches students to use letter combinations in simple words before more
  complex words.
- Provides a parallel objective and instruction focused on reading words in
  extended discourse.
- Provides a clear strategy for teaching CVCe pattern words.
- Teaches the preskills for learning CVCe pattern words before CVCe words
  are taught.
- Incorporates an acceptable sequence of words used in teaching CVCe pattern
  words (e.g., CVCe and CVC words are used in a discrimination list).
5. Appendices
References


References (con’t)


Resources
Representative products (not necessarily recommended)

First-Time Phonics
Grades: K-2
Set of six activity books which address readiness skills, the alphabet, consonants, short vowels, and long vowels.
Publisher: Steck-Vaughn
Phone: (800) 531-5015

Guided Practice in Reading-Phonics
Grades: PreK-4
This set of small workbooks is aimed at increasing phonics skills.
Publisher: George F. Cram Co.
Phone: (800) 227-4199

Multi-Sensory Phonics Workbooks
Grades: 1-6
A set of five workbooks that target phonics and syllabification. Reproducible worksheets that teach skills of blending and segmenting, as well as spelling.
Publisher: Holland Publications
Phone: (800) 541-9588

Phonics and Word Analysis
Grades: 1-6
This series sequentially teaches phonics and structural analysis as a means to aid decoding. Students practice letter-sound association and study syllabification, affixes and root words, contractions, possessives, synonyms, antonyms, homophones and dictionary usage.
Authors: Ryan, I., Habecker, J., et al.
Publisher: Continental Press
Phone: (800) 233-0759

Horizons
Grades: K-2
Program uses a five-part instructional sequence that begins with phonemic awareness and word attack skills, and progresses to story reading, extension spelling, and independent work.
Author: Siegfried Engelmann
Publisher: SRA/McGraw-Hill
Phone: (888) SRA-4KIDS
Representative products (not necessarily recommended)

**Corrective Reading-Decoding**
*Grades*: 3-12 remedial
Set of four workbooks that target word-attack skills, decoding strategies and skill application lessons.
*Author*: Siegfried Engelmann
*Publisher*: SRA/McGraw-Hill
*Phone*: (888) SRA-4KIDS

**Making Words**
*Grades*: 1-3
This program utilizes a developmental approach to combine phonics and spelling. During 15-minute activities, children are encouraged to explore words, letter-sound relationships, and letter patterns.
*Publisher*: Hoiland Publications
*Phone*: (800) 541-9588

**My Books**
*Grades*: K-1
This series includes three sets of predictable books which reinforce basic sight words and phonics skills, while using a predictable pattern of language to enable students to progress from guided reading to fluency.
*Publisher*: Scholastic Inc.
*Phone*: (800) 724-6527

**Peer Assisted Learning Strategies for Beginning Readers (PALS)**
*Grades*: 1-2
Procedures for two kinds of activities are included: 1) Sounds and Words, which focuses on phonological skills, and 2) Story Sharing which focuses on supporting skills for reading comprehension.
*Author*: Adams, M. J., Foorman, B. R., Lundberg, I., & Beeler, T.
*Publisher*: Department of Special Education, Florida State University
*Phone*: (800) 638-3775
**Resources (con’t)**

Representative products (not necessarily recommended)

**Phonics and Word Analysis**
*Grades: 1-6*
This series sequentially teaches phonics and structural analysis as a means to aid decoding.
*Author: Ryan, I., Habecker, J., et al.*
*Publisher: Continental Press*
*Phone: (800) 233-0759*

**Wilson Reading System**
*Grades: Elementary*
This program directly and systematically teaches students how to accurately decode.
*Publisher: Wilson Language Training Corporation*
*Phone: (508) 865-5699*

**Chall-Popp Phonics**
*Grades: K-3*
This program provides for systematic instructional strategies for teaching specific skills, modeling techniques for problem-solving, and suggestions for connecting literature and language arts to the study of phonics.
*Author: Chall, J. S., & Popp, H. M.*
*Publisher: Continental Press*
*Phone: (800) 233-0759*

**Programmed Reading**
*Grades: K-6*
A diagnostic and prescriptive program that attempts to present a logical, systematic, linguistic progression of decoding and word-attack skills while placing an early emphasis on comprehension.
*Publisher: Phoenix Learning Resources*
*Phone: (800) 221-1274*

**Steck-Vaughn Phonics**
*Grades: K-4*
This five-book series with picture cards and activities teaches and reinforces phonics instruction and decoding strategies.
*Publisher: Steck-Vaughn Company*
*Phone: (800) 531-5015*
Resources (con't.)
Representative products (not necessarily recommended)

Learn to Read Program - Sets 1-6
Grades: Pre-K-1
This program contains 36 illustrated books built on factual and fictional themes and organized into 6 sets.
Author: Gould, T. S., & Warnke, M.
Publisher: Walker Publishing Company, Inc.
Phone: (800) 897-3202

Primary Phonics/More Primary Phonics
Grades: K-2
This program of over 70 story books teaches students to read, write, and spell. The More Primary Phonics material reinforces and expands the concepts of the primary series, but with a faster word introduction.
Author: Makar, B.
Phone: (800) 225-5750

Stories from Sounds
Grades: K-3
These illustrated storybooks focus on words with short vowel sounds, through five levels.
Author: Hewetson, E., & Shima, V.
Phone: (800) 225-5750

Computer Software

Language Experience Series Read-a-Logo
Grades: PreK-4
This sequential 10-disc packet turns a logo-laden environment into an arena of print appreciation.

Great Beginnings
Grades: K-4
Students can choose graphics from the graphics library to illustrate their own stories or to help them generate ideas.

Language Experience Recorder
Grades: K-10
This 2-disc program enables students to write, read, and hear their own stories.
Publisher: Teacher Support Software
Phone: (800) 228-2871
Resources (con't.)
Representative products (not necessarily recommended)

**Phonics Based Learning to Read Programs**
*Grades:* 1-6
Integrates auditory and visual processing skills to enhance efficient and automatic word recognition.
*Publisher:* Lexia Learning Systems, Inc.
*Phone:* (800) 435-3942

**Phonics Based Reading**
*Grades:* 1-3
A three-level program for reinforcing decoding skills using a phonological approach.
*Publisher:* Lexia Learning Systems, Inc.
*Phone:* (800) 435-3942

**Reading Horizons CD-ROM**
*Grades:* PreK-2 (Elementary) and 3-Adult (Accelerated)
Interactive courseware for the "Discover Intensive Phonics for Yourself" method of teaching reading. Program is designed to teach 42 sounds, 5 phonetic skills and two decoding skills in a sequence.
*Publisher:* HEC Software
*Phone:* (800) 333-0054

**SuperSonic Phonics I**
*Grades:* 1-3, or remedial for older students
Three levels of intensive phonics training, with five units in each level and over 170 branching exercises to reinforce concepts.
*Publisher:* Curriculum Associates
*Phone:* (800) 225-0248

**Wiggleworks**
*Grades:* K-2
Comprehensive program divided into three stages (A-emergent, B-early, C-fluent reading).
*Publisher:* Scholastic
*Phone:* (800) 724-6527

**ABC with Hickory and Me**
*Grades:* PreK-1
Students explore an interactive kitchen with a friendly mouse Hickory, as they practice matching letters and sounds.
*Publisher:* Step Ahead
*Phone:* (800) 929-8765
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