

AISD Special Education Best Practices Survey Results August 2010

Results summarized in this report represent all survey/interview respondents data available as of September 14, 2010. This is a summary derived from work with ARRA IDEA Eliminating the Gap project, and it highlights successful schools' best practices in supporting special education students' passing TAKS reading/ELA and math in 2009-10.

Who participated in the survey and interviews?

In August 2010, AISD schools from all areas of Austin were invited to participate in a special education best practices survey or interview based on their special education students' TAKS 2009-10 performance in **reading/ELA** and/or **math** based on one or both of the following criteria:

- High number of test takers and percentages passing TAKS reading/ELA 70% or higher; math 60% or higher
- Greater than 50% of special education students successfully passing TAKS or TAKS-A reading/ELA or math 2009-10 who had switched from TAKS-M in 2008-09

Our Respondents

Staff who participated in the survey and interviews included principals, special education department chairs, general education teachers, and special education teachers.

Campus Level	Total	Survey	Response
	Sample (n)	Responses (n)	Rate (%)
Elementary	42	37	88%
Middle	14	12	86%
High	8	5	62%
All	64	54	84%

Schools That Participated in the Surveys and Interviews

<u>Elementaries</u>	Elementaries	<u>Elementaries</u>	Secondaries
Allison	Govalle	Palm	Bailey
Andrews	Highland Park	Patton	Bedichek
Barrington	Hill	Pecan Springs	Bowie
Blazier	Houston	Pickle	Covington
Boone	Joslin	Pillow	Dobie
Brentwood	Kiker	Sims	Fulmore
Bryker Woods	Lee	Summitt	Garza
Casey	McBee	Sunset Valley	Gorzycki
Cook	Menchaca	Travis Heights	Lamar
Cowan	Mills	Williams	McCallum
Dawson	Oak Hill	Widen	Mendez
Doss	Odom	Zilker	Murchison
	Overton		O. Henry
			Paredes
			Reagan
			Small
			Travis

Common Findings Among Schools

Most Effective Practices of Your Campus' Interventions

- Consistent, frequent interventions support during and beyond the school day
- Systematic, explicit, focused instruction
- High expectations among teachers and students
- "Team effort" by all staff to support student success; good coordination, frequent communication
- High interest materials on grade level to encourage student motivation
- Use of appropriate materials, manipulatives, accommodations, technology
- Every secondary student (as appropriate) has access to a graphing calculator
- Regular progress monitoring and communication among all teachers; teachers plan together
- Start interventions early and offer through the school year
- Inclusion in general ed. classroom and on-grade level instruction supported by resource/pull-out
- Address individual needs of student; use data to ensure student gets most appropriate intervention and assessment; use small group instruction when possible
- Raise rigor in resource classrooms by focusing on TAKS terminology used for each objective
- Special ed. teachers attend all professional development offered to general ed. teachers

Progress Monitoring - How Did You Use Data? Some examples.....

- Staff met regularly to review multiple sources of student data (e.g., past TAKS performance, TAKS release test, DIBELS, DRA, benchmarks, fluency, comprehension, data by objective, attendance, discipline, teacher input on student's class performance and motivation)
- Decisions about appropriate intervention and tutoring made using student data based on student needs
- Reevaluated students regularly
- Administrator and teachers involved
- Met to determine what was and wasn't working in intervention
- Looked at students individually if they were moving from TAKS-M to TAKS/A looked at several types of data to determine if student was ready
- Progress monitoring used frequently for identification, re-teach, assessment of mastery
- Differentiated instruction based on student data
- Data reviews helped celebrate student mastery of concepts and skills

Strategies to Encourage Attendance at Tutoring

- Snacks, food
- Rewards, prizes, computer time
- Games, centers, engaging activities
- Small group, individual attention
- Expectations and praise communicated to students
- Reminders to students
- Communications to parents (phone call, note home, reminders)

Reading/ELA Survey Results

The following tables summarize results from survey items about reading/ELA classroom practices, determinants for interventions, frequency of tutoring, staff who planned or provided tutoring, and resources used for tutoring and intervention.

Students' Classroom Setting

Classroom Setting	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS-M to TAKS/A Reading %
General education (inclusion)	15	15	23	46
Special education (resource)	8	8	0	0
Both gen ed. and special ed.	54	31	18	18

Criteria Used When Deciding to Move Students From TAKS-M to TAKS/TAKS-A

Criteria	Elementary %	Secondary %
Scored Commended on 2008-09 TAKS M	58	69
Class performance (grades) high	31	54
School attendance high	4	23
Attended reading tutoring	35	31
Teacher recommendation	42	61
ARD committee decision	61	61
Parent recommendation	8	15

Determinants of Intervention and Tutoring Groups

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Determinants	Elementary High Passing Reading %	Elementary TAKS- M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS- M to TAKS/A Reading %
Group size	50	42	15	23
Grade level	50	42	8	46
TAKS version (M, A, etc.)	38	42	0	38
Prior TAKS performance	42	35	15	38

Frequency of Reading/ELA Interventions and Tutoring

- Average intervention or tutoring session was 45-50 minutes
- Interventions offered most often during and after school

Frequency of Intervention or Tutoring	Elementary High Passing Reading %	Elementary TAKS- M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS- M to TAKS/A Reading %
Before school	8	4	0	23
During school	50	31	23	46
After school	65	46	31	69
Weekends	11	8	8	23
Once per month	0	0	0	8
Twice per month	0	0	0	8
Once a week	19	8	0	15
Twice a week	38	27	15	15
Three or more per week	23	27	31	46

Staff who Planned Reading/ELA Interventions or Tutoring

Staff planned interventions	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS-M to TAKS/A Reading %
General education (inclusion)	54	23	46	69
Special education (resource)	65	50	46	69
Curriculum specialist	31	19	0	15
Teaching assistant	46	27	8	23
Administrator	38	31	15	46

Staff who Provided Reading/ELA Interventions or Tutoring

Staff for interventions	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS-M to TAKS/A Reading %
General education (inclusion)	50	31	31	46
Special education (resource)	69	58	38	69
Curriculum specialist	27	8	0	0
Teaching assistant	50	35	0	23
Other (administrator, student				
teacher, volunteer)	23	23	8	31

Reading Resources Used for Interventions and Tutoring

Resources	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS- M to TAKS/A Reading %
Books	38	42	23	46
Instructional materials	61	50	38	61
Hardware or software	42	31	15	61
Manipulatives	19	23	8	31
Student consumable materials	35	23	15	31
Accommodations	58	54	15	54
Performance level descriptors	8	15	0	15
Teacher planning or training	54	50	31	61

Examples of Reading Resources Used

Reading Resources	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS- M to TAKS/A Reading %
Books	* Inclusive practice * I Station *Read Naturally * Scott Foresman books (decodable readers, level 1, 2, 3) * Chapter books *Start to Finish books * Orbit Double Takes *Time for Kids * Van de Walle activities * Leveled readers * Novels * Primary phonics * Take Flight * Nonfiction (autobiographies, hurricanes), and Fiction books (fables) * Mini Mysteries	* Accelerated Reading books * 2-tiered comprehension books * I Station books * Steck-Vaughn and Harcourt leveled readers *Start to Finish books *Time for Kids *Novels *Scott Foresman books (decodable readers, level 1, 2, 3) *Take Flight * Short chapter books * Mini Mysteries	* Hot Zone * Call of the Wild * Last Book in the Universe * Children of Willesden Lane * Classroom curriculum	* Hot Zone * Call of the Wild * Last Book in the Universe * Children of Willesden Lane * Classroom curriculum * Books on tape * Age- appropriate reading material
Instructional materials	* Great Leaps * Rewards * DIPS * Read Naturally * I Station materials * Project READ * 10 minute readings * TAKS Master * Word warm-ups * PCI reading comp. practices * TAKS prep books * Van de Walle activities * 5 W's chart (Who, What, When, Where, Why) * Decodable readers * Mentoring Minds * Reader's theater * TAKS release test * Explode the Code * Reading A to Z fluency stories * TestSMART * Educational Insights Lesson Cards	* Accelerated Reading * Explode the Code * Megawords * Scott Foresman * Read Naturally * DIPS * Great Leaps * Passageways anthologies * Released TAKS tests * SIPPS * I Station lessons * Word warm-ups * PCI reading comprehension practice * TAKS Masters * Mentoring Minds * Reader's theater * Reading A to Z stories * TestSMART * Educational Insights Lesson Cards	* SIPPS	* SIPPS * Flash cards * General ed. materials * Read 180 * Released TAKS tests * Focus on comprehension skills, vocabulary building, drills and skills in reading * Voyager reading * Corrective reading * Word Wisdom

Reading Resources	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS- M to TAKS/A Reading %
Hardware or software	* I Station * Lexia * Razz Kids * Read Naturally * Starfall Learning to Read *Start to Finish books *Educationcity.com *Reading A to Z website *Tumble books	* I Station *FCRR.org *Razz Kids * Read Naturally *Starfall Learning to Read *Start to Finish books *Educationcity.com *Reading A to Z website * Tumble books	* Blogging * Glogster software * Lexia * Dibels *My Reading Coach *Study Island *Wise Soft	* Powerpoint * Glogster software * Lexia *Online reading fluency * My Reading Coach *Study Island *Wise Soft *Aleks
Manipulatives	*Foam or magnetic letters * Flash cards (sight words, phonics) * Individual word banks * I Station materials * Sentence strips * White boards * Read aloud, acting out passages, improvisation, reader's theater * Graphic organizers, wordweb graphic * Place markers, post-its	* Board games (Scrabble, Bingo) * Card games * Flip charts * Word tiles *I Station materials *Sentence strips *White boards *Read aloud, acting out passages, improvisation, reader's theater *Graphic organizers *Chart of reading strategies (7 steps to reading) *Place markers, postits		* Sentence strips * Matching vocabulary words to definitions
Student consumable materials	* Motivational reading book series, leveled by grade * Read Naturally * Reading Milestones * Mentoring Minds * Released TAKS * Teacher-made materials * Worksheets, take home books (SRA Open Court) * TAKS-like stories for homework	* Accelerated Reading * Explode the Code * Megawords *Scott Foresman materials * Motivation reading book series, leveled by grade * Mentoring Minds * Teacher-made materials * TAKS-like stories for homework	* Education Rally * Released TAKS * Interactive readers	* Education Rally * Released TAKS * Interactive readers * Kamiko developmental series of tutorials * Measuring Up reading * TAKS Coach

Reading Resources	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS- M to TAKS/A Reading %
Accommodations	* Dyslexia bundle * Use with practice tests * Follow IEP (e.g., preferred seating, modified assignment, repetition) *Oral administration * Small groups * Frequent breaks * Read questions and answer choices aloud * Extended time * Post-it notes, place holders * Preview, pre-teach * Graphic organizer, Venn diagram * Rehearsal * Consistent people and places in testing * Teacher encouragement * Teaching students how to look for information in text	* Dyslexia bundle * Chunk information * Follow IEP (e.g., preferred seating, modified assignment, repetition) * Oral administration * Small groups * Frequent breaks * Check for understanding * Re-teach as needed * Peer tutoring * Post-it notes, place markers * Read questions aloud * Preview, pre-teach * Graphic organizer, Venn diagram * Extended time * Consistent people and places in testing * Minimal distraction * Teaching students how to look for information in text	*Re-teach * Modified TEKS * Extended time *Shorter testing * Reduced assignments * Small group * Provide notes * Student groups (remedial, inclusion)	* Re-teach * Graphic organizers * Inclusion setting and support * Paired reading * Preview * Reduced or shorter assignments * Scamper * Reading aloud * Small group * One-on-one * Place holders, highlighters * Note taking strategies * Test taking strategies * Reading 30 minutes daily and summarizing
Performance level descriptors	* TAKS released test * General ed. benchmarks * Clear expectations, show strategies, write what you think, show where you found information	* TAKS released test * General ed. benchmarks * High expectations * Engaged nightly with homework		* Frequent assessment * Specific objectives * Reading strategies in content areas, vocabulary

Reading Resources	Elementary High Passing Reading %	Elementary TAKS-M to TAKS/A Reading %	Secondary High Passing Reading %	Secondary TAKS- M to TAKS/A Reading %
Teacher planning	* BLS training	* DIPS	* Power of Us+	* General ed. and
or training	* SCORES training	* Read Naturally	* General ed.	special ed.
	* DIPS	* Project READ	and special ed.	teachers planned
	* Read Naturally	* Dibels	teachers	together
	* Project READ	* Scientific Spelling	planned	* Read 180
	* Dibels	* Discuss students'	together	* Reviewed
	* Scientific Spelling	strengths among		student data
	* Discuss students' strengths	general ed. and special		* PLC for
	among gen ed. and sp ed.	ed. teachers		inclusion
	teachers	* SIPPS		
	* Motivation reading	* Dyslexia		
	* Review common	* Review common		
	assessment data	assessment data		
	* Team planning (special ed.	* Team planning		
	and general ed. teachers, and	(special ed. and		
	TAs)	general ed. teachers,		
	* Power of Us+ training	and TAs)		
	* General ed. teachers	* General ed. teachers		
	provide weekly lesson plans	provide weekly lesson		
	to special ed. teachers	plans to special ed.		
	* TAKS training	teachers		
	* Co-teaching, inclusion	* Co-teaching,		
		inclusion		
		* Language therapy		
		training		
		* Weekly plan & prep		

Resources recommended by AISD Reading/ELA Curriculum Staff

- For Tier 2 interventions, ensure struggling special education students access reading specialists
- K-8 SSIG funds for tutoring and materials Contact Peggy Mays
- Ensure struggling special education students access and utilize grade 6 reading Tier 2 elective
- Ensure struggling special education students access and utilize Read 180 on MS and 2 HS campuses
- For Tier 3 interventions, utilize training and resources provided in 'Tier 3' reading initiative Contact John Fuerst

Other Resources

- Depth of Knowledge chart information -<u>http://www.dese.mo.gov/divimprove/sia/msip/DOK_Chart.pdf</u>
- Performance Level descriptors http://www.tea.state.tx.us/index3.aspx?id=3222&menu_id3=793

Math Survey Results

The following tables summarize results from survey items about math classroom practices, determinants for interventions, frequency of tutoring, staff who planned or provided tutoring, and resources used for tutoring and intervention.

Students' Classroom Setting

Classroom Setting	Elementary High Passing Math %	Elementary TAKS-M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS-M to TAKS/A Math %
General education (inclusion)	20	4	17	17
Special education (resource)	4	8	0	0
Both gen ed. and special ed.	56	24	33	33

Criteria Used When Deciding to Move Students From TAKS-M to TAKS/TAKS-A

Criteria	Elementary %	Secondary %
Scored Commended on 2008-09 TAKS M	56	67
Class performance (grades) high	32	50
School attendance high	16	33
Attended math tutoring	28	33
Teacher recommendation	32	67
ARD committee decision	40	50
Parent recommendation	4	33

Determinants of Intervention and Tutoring Groups

Determinants	Elementary High Passing Math %	Elementary TAKS- M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS- M to TAKS/A Math %
Group size	56	16	17	0
Grade level	64	24	17	33
TAKS version (M, A, etc.)	44	28	33	67
Prior TAKS performance	48	24	33	67
Other reason	24	0	17	0

Frequency of Math Interventions and Tutoring

- Average time per tutoring session was 45 minutes at elementary, 70 minutes at secondary
- Interventions or tutoring occurred most often during or after school

Frequency of Intervention or Tutoring	Elementary High Passing Math %	Elementary TAKS- M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS- M to TAKS/A Math %
Before school	16	4	0	33
During school	52	24	50	50
After school	72	28	67	67
Weekends	8	8	33	17
Once per month	0	0	0	0
Twice per month	0	0	0	0
Once a week	20	8	0	17
Twice a week	36	20	33	33
Three or more per week	24	12	33	50

Staff who Planned Math Interventions or Tutoring

Staff planned interventions	Elementary High Passing Math %	Elementary TAKS-M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS-M to TAKS/A Math %
General education (inclusion)	52	24	67	50
Special education (resource)	72	36	67	50
Curriculum specialist	16	12	17	17
Teaching assistant	40	16	17	33
Administrator	44	20	33	33
Other staff	8	0	0	17

Staff who Provided Math Interventions or Tutoring

Staff for interventions	Elementary High Passing Math %	Elementary TAKS-M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS-M to TAKS/A Math %
General education (inclusion)	48	24	33	50
Special education (resource)	72	40	50	67
Curriculum specialist	16	8	17	0
Teaching assistant	44	20	0	33
Other (administrator, student				
teacher, volunteer)	20	4	0	33

Math Resources Used for Interventions and Tutoring

Resources	Elementary High Passing Math %	Elementary TAKS-M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS- M to TAKS/A Math %
Books	20	4	0	0
Instructional materials	52	24	33	33
Hardware or software	48	8	33	50
Manipulatives	32	20	50	50
Student consumable materials	36	8	17	0
Accommodations	56	32	50	50
Performance level descriptors	8	4	17	33
Teacher planning or training	60	24	33	50

Examples of Math Resources Used

Math Resources	Elementary High Passing Math %	Elementary TAKS-M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS-M to TAKS/A Math %
Instructional materials	* Envisions * Motivation Math * Hands on Math * Region IV materials * VandeWalle's books * Math Number World * Math the Fun Way * TAKS Masters * TAKS Busters * TransMath * Touch Money * TAKS workbooks * Countdown to TAKS * Fast Focus * Daily math, worksheets * Voyager * Grade-level charts * Problem-solve chart * Investigation games * Envisions * Motivation Math * Focus Math * Math Number World * Math Rehearsal * 5-step problem solving activities * Step up to TAKS * Released TAKS * Teacher-made materials * Voyager Math * Trans Math (Sopris)	* Envisions * Motivation Math * Below-grade level texts for reteach, reinforcement, homework as needed * Touch Money * Envisions * Motivation Math * Investigation games * Focus Math * Resource book – Practical Ideas That Really Work for Teaching Math Problem Solving (Prufrock Press) * Teacher-made materials	* Mastering Math * Math computation skills and strategies * Multistep math word problems * Accelerated curriculum – series of lessons with TAKS-style questions * Math U See	* Mastering Math * Math computation skills and strategies * Multistep math word problems * Grade-level, special ed. specific
Hardware or software	* Aleks.com * Brainpop, Brainpop Jr * Envision etools * Math Number World * My Satori * Symphony Math * V-Math Live * Voyager * Mathbrain.com * Mathfrog.CA online	* Aleks.com * Brainpop	* Aleks * Fast Math * Easy Time to Math drills * Region 13 Math drills	* Aleks * Study Island * Fast Math * Easy Time to Math drills [* Dimension M – only used for students taking TAKS-M test]

Math Resources	Elementary High	Elementary TAKS-M	Secondary High	Secondary TAKS-M
	Passing Math %	to TAKS/A Math %	Passing Math %	to TAKS/A Math %
Manipulatives	* Base 10 blocks * Fraction bars * Fraction flip books * Ten frames (number recognition) * Cubes * Fraction sets * Clocks * 100 multiplication chart * Gallon/quart jugs * Dozen egg carton * Math Number Word * Envisions activities * Thermometer * Calculators * Place value flip charts * Online tools (e.g., Envisions, Holt textbook) * Fraction bingo and dominos * Math dash * Money * Measurement man * Geo boards * Geometric shapes * Released TAKS items * Benchmark test items * Rulers * Peg board * Dynah Zikes' Big Book of Math	* Base 10 blocks * Geometric shapes * Cubes * 100 multiplication chart * Clocks * Decimal place value * Geo board * Fraction bingo and dominos * Math Dash * Measurement man * Place value chart * Fraction board * Money * Released TAKS items * Benchmark test items * Dynah Zikes' Big Book of Math	* Fair Games cubes * Matching * Sequencing * Fraction cakes * Blocks, shapes * Onion school paper * Graphing calculator	* Models, blocks, shapes * Onion school paper
Student consumable materials	* Envisions * Math Number World *Math in Our World * Mentoring Math * Motivation Math * TransMath * Countdown to TAKS * TAKS M Math Rehearsal * Teacher-made materials and worksheets * TAKS homework book	* Envisions * Mentoring Math * Teacher-made materials and worksheets * TAKS homework book	* HRW consumables	

Math Resources	Elementary High	Elementary TAKS-M	Secondary High	Secondary TAKS-M
	Passing Math %	to TAKS/A Math %	Passing Math %	to TAKS/A Math %
Accommodations	*Follow IEP (e.g., preferred seating, modified assignments, repetition) *Math Number World * Multiplication chart * Fraction strips, board * Problem solving steps * Place value chart *Grid paper * Calculator * Clocks * Charts, number line * Oral administration * Small groups Reading assistance * Base 10 blocks, cubes * Supplemental aids, tool box *Rounding chart, rounding hills *Math glossary *On-grade level instruction * Pre-teach, preview * TA support in class * Read aloud *Shorten assignments * Break tasks into parts * Focus on fewer skills at a time * Small group pullout when needed for reteach * Mnemonic devices * Consistent people & place	* Oral administration * Read aloud * Frequent checks for understanding * Problem solving guide * Access to sign language dictionary * Small groups * Supplemental aids, tool box * On-grade level instruction * Frequent breaks * Fraction pieces, chart, board * Base 10 cubes * Mnemonic devices * Consistent people and place * Minimal distraction * Inclusion * Number line * Clocks * Pull out as needed for re-teach	* Calculators, graphing calculators * Math and Multiplication charts * Graphic organizers * One-on-one help * Small groups * Oral administration * Supplemental aids * Onion skin paper	* Calculators, graphing calculators *Graphic organizers * One-on-one help * Small groups * Oral administration * Supplemental aids * Vocabulary development
Performance level descriptors	* Math Number World TEKS * Benchmark tests * TAKS released tests * Questions in smaller sessions (not whole test at once)	* TEKS * Benchmark tests * TAKS released tests * Questions in smaller sessions (not whole test at once)	* TEKS / TAKS objectives * Basic math calculations * Problem-solving skills * Visuals * Math vocabulary	* Kilgo training to identify special education needs * Basic math calculations * Problem-solving skills * Visuals * Math vocabulary

Math Resources	Elementary High Passing Math %	Elementary TAKS-M to TAKS/A Math %	Secondary High Passing Math %	Secondary TAKS-M to TAKS/A Math %
Teacher planning or training	* Cognitively Guided Instruction (CGI) * Fifth Sense * 5-Step Math Problem Solving Guide * Math Number World * Review data * Rotations during day with general ed. and special ed. teachers * Region 13 training * Planning and inclusion with general ed. and special ed. teachers – identify, group, re- teach, practice, assess – goal of mastery for all students * Ongoing teacher discussions * Co-teaching	* Cognitively Guided Instruction (CGI) * MSMath * Region 13 training * Team planning with both general ed. and special ed. teachers * Tutoring support from math specialist	* Planned by objective * General ed. and special ed. teachers planned together * Planning time with tutors and inclusion teachers * Shared test results with teachers	* Inclusion-based team planning * Planning time with tutors and inclusion teachers * Reviewed student data * PLCs for inclusion * Shared test results with teachers

Resources recommended by AISD Math Curriculum Staff

Mathematics K-12 resources to support Core, Tier 2, and Tier 3 instruction

- 1. Region IV
 - a) Mathematics Accelerated Curriculum (Grades 5, 5 Sp, 6, 6 Sp, 7, 8, 10, EXIT) http://www.region4store.com/catalog.aspx?catid=347914
 - b) Engaging Mathematics Curriculum (Grades 3, 4, 4Sp, 5. 5Sp, 6, 7, 8, Alg1, Geo, Alg2, HS ELPS) http://www.region4store.com/catalog.aspx?catid=347792
 - c) Supporting TAKS Achievement (Grades K-2, K-2Sp) http://www.region4store.com/catalog.aspx?catid=347792
 - d) Closing the Distance (Grades 5-11), Connections (Grades K-11, K-5Sp) and TAKS prep (Grades K-11, K-5Sp) http://www.region4store.com/catalog.aspx?catid=347943
- 2. Region 13: Second Sense Math, Fifth Sense Math, Eighth Sense Math http://www.esc13store.net/index.php/generaled/math.html
- 3. America's Choice Navigator and Rampup http://www.americaschoice.org/mathematics
- 4. Software
 - a) Scholastic FastMath http://www.scholastic.ca/education/tom-snyder/m-fastmath.html
 - b) Understanding Math http://www.neufeldmath.com/
- 5. Free website games
 - a) Skillbuilders http://www.arcademicskillbuilders.com/
 - b) Oswego http://resources.oswego.org/games/

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- 6. Free Calculator support activities
 - a) Elementary:

http://education.ti.com/educationportal/sites/US/sectionHome/activitybook_section_elementarymat h.html

- b) Middle School:
- http://education.ti.com/educationportal/sites/US/sectionHome/activitybook_section_middlemath.ht ml
- c) High School: http://education.ti.com/educationportal/sites/US/sectionHome/activitybooks.html

Elementary Mathematics

- 1. Pearson Envision Mathematics (K-6 AISD adoption) has specific Rtl mathematics resources
- 2. Cognitively Guided Instruction (CGI)
- 3. DMI

Secondary Mathematics

- 1. Holt Mathematics (6-10 AISD adoption) has specific Rtl mathematics resources
- 2. Make sure Special Ed students have access to graphing calculators; Use the Region IV Graphing Calculator Tutorial to help: http://math.escweb.net/index.htm

Other Resources

- Depth of Knowledge chart information -http://www.dese.mo.gov/divimprove/sia/msip/DOK_Chart.pdf
- Performance Level descriptors http://www.tea.state.tx.us/index3.aspx?id=3222&menu_id3=793

Elementary Case Example of One School's Approach

Kiker Elementary

Principal - Lori Schneider

- Ownership Every grade level teacher is responsible for every student at their grade level.
- Campus culture Students are General ed. first, and Special ed. on top of that. The campus culture is that every student belongs.
- Student peer relations Campus culture supports student peer relationships. Older students are paired with younger students (grades 3 and Kindergarten, 4 and 1, 5 and 2), including lunch, recess, and tutoring time after school.
- Student's own toolkit Before end of year assessments occur, each Sped student has a toolkit, developed during the year by the student and the teacher, that contains supplemental aids, "fidget" items, accommodations appropriate to the student, manipulatives for math, etc. In this way, the students are prepared with their toolkit for TAKS.
- Accommodations manual Every teacher (General ed. and Special ed.) is expected to read, know, and apply details from the accommodations manual. Applications of accommodations are discussed in depth at staff meetings.
- Purposeful planning Teachers use key planning documents for every class of students.
- Creative staffing Staffing does not drive student test settings on test day. The appropriate test setting is provided to each student, small group of students, etc.