

Low Tech Tools for Inclusive Education



Created and Presented by:
Kristie Stapler and Sharon Edwards
Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

www.lati3.com

Tools for Little Kids 1

Basic Skills Board..... 1
Rainbow Numbers..... 1
Time Sequence Puzzles 1
Wooden Farm Sound Blocks..... 1
Wooden Picture Holders 1
Discovering My World Coloring Book..... 2
Play and Learn Dot Coloring Book 2
Knob Paint Brush Set 2
Do•A•Dot Art Paints 2
Jumbo Crayons 2
Lyrax Crayons..... 2
Silky Crayons..... 2
White Board Crayons 2
Mini-Magnetic Markerboards 3 inch..... 3
Fiskars First Scissor..... 3
Mini Easi-Grip Scissors 3
Learning Scissors 3
Tap ‘n Glue..... 3
Jumbo Letter / Number Stamps 3
Learning Playground Tubbed Manipulatives 3
Picture Schedule Strip 4
Pre-School Pencil and Grip Set..... 4

Tools for Writing..... 5

Alpha-Numeric Rubber Stamp Set..... 5
Jumbo Letter / Number Stamps 5
AT Notebook..... 5
Bold Lines Paper 5
Bright Lines Paper – Kindergarten Ruled..... 6
Bright Lines Paper – Kindergarten Ruled with Picture..... 6

Low Tech Tools for Inclusive Education
Created by: Kristie Stapler and Sharon Edwards
Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

Bright Lines Paper – Medium Ruled	6
Bright Lines Paper – Narrow Ruled.....	7
Colored Notebook Paper	7
Narrow Line T-K Spacing Paper.....	8
Narrow Line T-K Writing Paper.....	8
Note Taking Paper	8
Smart Start Story Paper.....	9
Stop ‘n Go Raised Line Paper.....	9
Tops Stinger Writing Pad.....	9
Wide Line T-K Spacing Paper.....	10
Wide Ruled Raised Line Paper.....	10
Academie Jr. ™ Learn To Letter With Raised Ruling Tablet.....	10
www.handwritingforkids.com.....	11
http://homeschooling.about.com/od/freeprintables/qt/printables.htm.....	11
www.incompetech.com/graphpaper	11
Children’s Speller & Dictionary	11
Page Mark Dictionary	11
Spelling Ace Plus	11
Speaking Language Master.....	12
WriteRight Bookmarks	12
QUICK-WRITE® Handbooks for Everyday Writers.....	13
QUICK-WORD® Handbooks	13
QUICK-WORD® Phonics Handbook.....	13
SpellWell Bookmarks	14
SPELLEX® Reference Books.....	14
P-Touch Electronic Labeler	14
Learning Playground Tubbed Manipulatives	14
Eraser & Sharpener Set	15
Ergo-Sof Pen Again.....	15
Evo Pen	15
Evo.Clicker	15
Multi-Color Light Pen	16

Low Tech Tools for Inclusive Education
 Created by: Kristie Stapler and Sharon Edwards
 Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

Neon Lites Assortment.....	16
Nite Writer Pen	16
Red-Light Note-Taking Pen	16
Remedy Pen	16
RinG Pen.....	17
Pencil Grips	17
Finger Grip Ruler	17
Hefty Tabs.....	17
Post-it Mini Tape Flags.....	18
Redi-Tag Arrow Page Flags	18
Keystick Keyboard Labels	18
Page Up	18
Magnetic Inkjet Paper	19
Stickin' Place Magnetic Sheets	19
Mini-Magnetic Markerboards 5x8 inch.....	19
Mini-Magnetic Markerboards 3 inch.....	19
Standard (Blank) Markerboard Set.....	19
White Board Crayons	20
Writing Guide Fully-Lined Markerboard Set.....	20
Writing Guide Single-Lined Markerboard Set	20
Non-Slip Pad.....	21
Picture Schedule Strip	21
Wooden Picture Holders	21
Play and Learn Dot Coloring Book	21
Signature / Reading Guide	21
Write Size Writing System	22
Writing Guide.....	23
<i>Tools for Reading & Copying.....</i>	23
See it Right.....	23
Highlighter Tape (1-inch and 2-inch).....	23
Removable Highlighter Tape Sheets	24

Low Tech Tools for Inclusive Education
 Created by: Kristie Stapler and Sharon Edwards
 Region 3 AT Facilitators
 staplerk@apsb.org edwardss@apsb.org

Post-it Mini Tape Flags.....	24
Heads up Frame Set – Large.....	24
Heads up Frame Set – Small	24
Reading Helper Set	24
Top of the Line Set.....	25
Transparency Files.....	25
Transparency Rulers	25
3 Point Erasable Highlighter	25
Multi-Color Light Pen	25
Neon Highlighter Set.....	25
Neon Lites Assortment.....	26
Children’s Speller & Dictionary	26
Page Mark Dictionary	26
Spelling Ace Plus	26
Speaking Language Master.....	26
Colored Light Bulbs.....	27
Gooseneck Lamp	27
EZ Book Clip.....	27
Page Up	28
Portabook.....	28
Laptop Paper Port	28
Magnifying Bar	28
Pocket Magnifier	28
Signature / Reading Guide	29
Writing Guide.....	29
<i>Tools for Math</i>	29
Addition and Subtraction Flexitable	29
Fractions and Decimals Flexitable.....	29
Multiplication and Division Flexitable.....	30
Math Tables.....	30
QUICK-MATH® Handbooks Grades 3 – 8	30

Low Tech Tools for Inclusive Education
 Created by: Kristie Stapler and Sharon Edwards
 Region 3 AT Facilitators
 staplerk@apsb.org edwardss@apsb.org

MathPath Bookmarks Grades 1-8.....	31
Advanced Math Magnets.....	31
Learning Playground Tubbed Manipulatives	31
Magnetic Hundreds Board and Magnetic Multi-Color Graphing Tiles	32
Magnetic Math Set	32
Stickin' Place Magnetic Sheets	32
Bar Magnifier w/Ruler	32
Master Ruler.....	32
Finger Grip Ruler	33
Softgrip Non-Slip Ruler.....	33
Illuminator Protractor.....	33
Time Timer	33
The Master Clock.....	33
Clock Markerboard Set.....	34
Grid Markerboard Set.....	34
Mini-Magnetic Markerboards 5x8 inch.....	34
Place-Value Markerboard Set	34
Clock Stamp Set	35
Fraction Pie Stamps	35
Numberline Stamp Set.....	35
Thermometer Stamp.....	35
X-Y Axis Stamp.....	36
Money Books	36
Coin-u-lator	36
Giant Calculator.....	36
Talking Calculator	37
TI-15 Explorer Calculator.....	37
Master Fraction Set	37
Math Grids.....	37
Math Line.....	37
Math Maker Templates	38
www.incompetech.com/graphpaper	38

Low Tech Tools for Inclusive Education
 Created by: Kristie Stapler and Sharon Edwards
 Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

Low Tech Tools for Access..... 39

Switches..... 39
Toys 39
Latch Timers 39
Power Link..... 40
Switch Interface..... 40
Resources 40

Low Tech Tools for Communication 41

Eye Gaze Board..... 41
Object Boards..... 41
Communication Board 41
Dial Scan Communicators..... 42
Single Location Devices 42
Two Location Devices 42
Four Location Devices 42
Eight Location Devices 43
Thirty-Two Location Devices..... 43

Low Tech Tools for Inclusive Education

This workshop was developed using LoTTIE Kits (Onion Mountain Technology, Inc.). These kits were designed to assist regular education teachers, special education teachers, instructional aides, occupational therapists, speech therapists, etc. that work with students with special needs with low to mid tech tools to help the students participate and access the curriculum.

Tools for Little Kids

Basic Skills Board

- Puzzle to assist in learning fine motor tasks
- Practice – buckles, buttons, shoelaces, zippers, snaps and clips
- Great way to work on fine motor tasks and language at the same time

Rainbow Numbers

- Wooden toy that encourages motor and cognitive skills
- Targets motor skills, matching, sorting shapes, sorting colors, counting, identify shapes and colors, identify shapes with eyes closed etc.

Time Sequence Puzzles

- Teaches sequencing through a puzzle
- Little knobs for easy access

Wooden Farm Sound Blocks

- Great fine motor and visual skill toy
- Fitting blocks together, rotating, etc.

Wooden Picture Holders

- Lightweight wood with pockets
- Uses
 - Place pictures in them for communication
 - Place letters in them for spelling
 - Place words in them for constructing sentences

Discovering My World Coloring Book

- Great book to teach coloring and staying in the lines
- Requires just a dot of color
- Use with students who are unable to do a back and forth motion

Play and Learn Dot Coloring Book

- Coloring book that requires only dot painting
- Builds motor planning for letters and numbers

Knob Paint Brush Set

- Paint brush for those with fine motor problems or those who are tactile defensive
- Hold in palm rather than a tripod grip

Do•A•Dot Art Paints

- Great way for students to color who can only dot a circle
- Large and easier to hold
- Uses
 - Print out letters or numbers and student has to dot trace them
 - For target practice use the magnetic hundreds board to practice patterns

Jumbo Crayons

- Thicker and shorter crayons
- Bigger crayons are easier to hold and less likely to break

Lyrax Crayons

- Crayons with a triangle grip to encourage proper grip
- Encourages tripod grip

Silky Crayons

- Smoothest and easy to color with crayons
- Great for those who have low muscle tone.
- Crayola also makes a silky crayon

White Board Crayons

- Erasable crayon to use with a whiteboard or laminated sheets of paper
- Uses
 - Use to provide a little more drag when writing on the whiteboard

Mini-Magnetic Markerboards 3 inch

- Small markerboards that are fully erasable and are able to stick to metal surfaces
- Uses
 - Use for putting letters, words or numbers in order
 - Use for spelling
 - Matching upper and lower case letters

Fiskars First Scissor

- Beginning scissors with blunt points, small and easy to hold
- For left and right hand users
- Automatically Opens
- For 3-4 year olds

Mini Easi-Grip Scissors

- Great for developing hands
- Once make a cut it automatically opens
- Uses
 - Use when student has trouble opening up scissors to get started

Learning Scissors

- Scaled down real scissors for developing hands
- Can cut paper but not hands

Tap 'n Glue

- Assists with dispensing glue with just a tap

Jumbo Letter/Number Stamps

- Large rubber stamps
- Uses
 - Answer questions with a stamp
 - Learning the alphabet or numbers through stamping its sequence
 - Copy or write name, phone number, etc.

Learning Playground Tubbed Manipulatives

- These popular manipulatives come in classroom quantities packaged in reusable self-storage tubs.
 - **Coin and Currency** container includes 318 pieces. Contains coins and currency bills. Teaches money-handling skills and counting.

- **Word Tile** container includes 160 plastic tiles. Tiles are color-coded by parts of speech: 55 nouns (blue), 35 verbs (red), 31 adjectives (green) and 39 miscellaneous such as pronouns and punctuation (yellow). Teaches sentence building and parts of speech.
- **Number Tile** container includes 175 plastic tiles. Contains 150 numbers and 5 tiles each of mathematical symbols. Teaches practice problem-solving skills through adding, subtracting, multiplying and dividing.
- **Letter Tile** container includes 176 plastic tiles. Contains 88 uppercase and 88 lower case letters. Teaches letter recognition and spelling.
- **Telling Time** container includes 180 chips showing digital, written and analog times. Teaches telling time in 3 formats and reinforces matching skills.
- **Animals** container includes 100 plastic animals. Includes 20 each of bears, dogs, cats, turtles and alligators in 5 different colors. Teaches sorting and counting.

Picture Schedule Strip

- Velcro Strip
- Use
 - Use as communication schedule or spelling strip

Pre-School Pencil and Grip Set

- Variety of pencil grips to help grip a pencil
- Bulb grip – helps promote proper grasp and prevent finger slippage
- Pencil grip – helps exact finger placement and non-slippage
- Solo grip – exact indentations for each finger involved in gripping a pencil
- Grotto grip – places in natural ergonomic position, which elevates need for increased pressure and prevents user from reverting back to immature grasping habits
- Start write grip – corrects improper grips and keeps the web space open
- Ferbie pencil – short length helps with holding and control and #1 lead writes darker with less pressure

Tools for Writing

Alpha-Numeric Rubber Stamp Set

- Upper case, punctuation, lower case and number set with operation symbols for math problems
- Uses
 - Problems with handwriting
 - Answer multiple choice, true/false questions, math problems and putting punctuation into sentences
 - Problem with holding stamp – glue a wine cork on top of each stamp

Jumbo Letter/Number Stamps

- Large rubber stamps
- Uses
 - Answer questions with a stamp
 - Learning the alphabet or numbers through stamping its sequence
 - Copy or write name, phone number, etc.

AT Notebook

- Designed to be used by one student so that a copy of the class or discussion notes is immediately ready to share with a classmate who cannot take notes of his or her own.
- Uses
 - Used to produce duplicates of math homework, rough drafts, and other assignments that the student might want to share with others to get a variety of different suggestions
 - For students who tend to forget if they've done an assignment, handed it in, or saved it to study for a test
 - For students needing to share a rough draft with a peer, it makes an instant copy
 - For correspondence with home on a regular basis and want to keep a copy of the notes you send

Bold Lines Paper

- White paper with bold, black lines, slightly larger than wide ruled paper
- Designed for students with visual impairments to give them the maximum contrast while trying to write on and within the lines
- Often the next step after raised line paper has been used to control the size of a student's lettering

- Uses
 - Work with young learners who need more consistent feedback
 - Use it with a lighted pen to increase the students visual attention to exactly where they are writing
 - Turn paper sideways and use it to help students line up the columns of numbers in their math problems
 - Use highlighter tape on every second or third space to create a visual space between lines of writing

Bright Lines Paper – Kindergarten Ruled

- Same as Kindergarten Ruled with Picture

Bright Lines Paper – Kindergarten Ruled with Picture

- Research suggests that kids respond to the direction to keep the “round part” of the letter within this area
- Students with reading problems often prefer Blue
- Students who need help attending often prefer Yellow
- Uses
 - For students who have problems with
 - Attention
 - Focus
 - Low arousal levels
 - Visually impaired children or children who need extra, blank spaces between lines of writing
 - Try the Blue paper with children who are showing signs of reading and writing problems (reversals, skipped letters, problems with spacing)
 - Have an adult write a sentence on the lines at the bottom of one sheet and have the student copy it on the bottom lines and/or illustrate the sentence
 - Have the student draw a picture and then describe it to the teacher who writes the student’s words, then let the student copy the words onto the bottom of the paper independently
 - Stamp or draw numbers and/or letters in different page orientations in the picture section and then have the student write the letter or digit they find on the lines below

Bright Lines Paper – Medium Ruled

- Primary ruled paper that has smaller lines than the kindergarten paper but not as small as the narrow ruled paper
- Extra spaces between each line to help students visually separate the lines of text.
- The color helps students attend to and focus on the area
- Uses

- For students who need extra space between lines and still need visual help in writing letter loops in the bottom half of the line
- For younger students who seem to be “drawing” letters to fit the larger space to the kindergarten paper
- Ideal line size for first and second grade
- For visually impaired students
- For students who have problems focusing or attending to tasks
- For students that are in between primary and standard ruled paper
 - Reduces size of primary lines
 - Adds spaces between lines
 - Offers line division and color cueing

Bright Lines Paper – Narrow Ruled

- Primary ruled paper with smaller lines for older students
- Extra spaces between each line help students visually separate the lines of text
- The color helps students attend to and focus on the area
- Uses
 - For students who need extra space between lines and still need visual help in writing letter loops in the bottom half of the line
 - For visually impaired students
 - For students who have problems focusing on or attending to writing tasks
 - For students that are in between primary and standard ruled paper
 - Reduces size of primary lines
 - Adds spaces between lines
 - Offers line division and color cueing

Colored Notebook Paper

- For the student whose only need is color related
- Comes in yellow, blue, lilac, green, and pink paper
- Uses
 - Provide for visual environments that work best for writing and editing.
 - Be sure the student has the opportunity to try all the colors before making a final decision
 - Choose colored paper that works best with ink colors (blue paper works great with black or dark blue ink or green ink with pink paper)
 - Works extremely well with color-coding organization systems
 - Works well when a student is categorizing notes or information as it is collected (notes from class might be pink; book notes green; discussion notes yellow)
 - Some students always use one color for rough drafts they know the writing assignment is still being worked on and has not yet been turned in

Narrow Line T-K Spacing Paper

- Provides narrow, three-spaced lines with an extra shaded-line between each line
- Gives students a place in which they can put their letter descenders
- Has vertical lines to help students space appropriately between letters and words
- Uses
 - For students whose major problem lies with spacing between words and lines
 - For math problems (Use the top two lines for addends, and the third line for the answer)
 - Use smaller lines when trying to teach students to constrain their letters to a given space (Many children have better control and legibility when they are “forced” to write in smaller areas)

Narrow Line T-K Writing Paper

- Provides a narrow, three-line format for writing, including one dotted line
- Lines are dark green and raised and there is a shaded space between each line
- Uses
 - For students who need the third space for descenders and who visually requires a space between each line
 - For students who can't hold a baseline or find a particular line/word within their writing

Note Taking Paper

- Designed to help students take notes and handwrite papers
- Heavy weight paper with dark blue base lines that have additional pale blue shading on each side of the line
- Research suggests that some students have a slight delay in their ability to see the line on the paper and then stop writing a line or stroke before going over that line
- The pale blue shading helps the student get ready for the line approaching and stop before they write outside the line space
- Uses
 - The heavy weight makes it an ideal choice for students who press so hard when writing that the words appear from the other side of the paper
 - Looks so much like ‘regular’ notebook paper, it is a good choice for older students who are still having problems controlling their handwriting size and use of the baseline
 - Students who already show a preference or need for blue to help them read, edit, and copy

Smart Start Story Paper

- Designed to give students special visual cues for starting and stopping letter formations
- Clouds in the “sky” signal where to start the stroke, pulling down to the flowers on the “ground” that signal where to stop the stroke or the lower margin of each line
- A horizontal red-dotted line or “fence” marks the midpoint of each line
- This paper comes in landscape orientation with an area for a picture and three lines for writing
- Uses
 - Have student draw a picture and then dictate or write a sentence that explains this
 - Have student draw a picture with grass, clouds and a gate to reinforce the idea of the Smart Start Story Paper. Then have them put a letter person in the picture making sure that everything touches in the correct place in the picture
 - Use as a pre or post activity
 - Use rubber stamps on the beginning of each line of the Kindergarten Ruled paper and have the student practice making their own matching letters on the rest of the line

Stop ‘n Go Raised Line Paper

- White paper with bold, dark green and red lines
- Students are instructed that their writing must stop at the red borders and the round part of their letters should go within the green lines
- Uses
 - The color coding for stop and go are familiar to students and should offer additional visual cueing for students who tend to write outside of the lines
 - Turn the paper sideways and use it to help students line up the columns of numbers in their math problems (The slightly smaller space between the green lines work well for students just starting to work with a decimal point)
 - Use highlighter tape on the middle green lines to further cue the student in which area most of their letters should appear

Tops Stinger Writing Pad

- Alternating lines of white and color (orchid, yellow, or green)
- Helps differentiate between lines
- Uses
 - Students write on one line and have teacher editing on other line

- Turn pad 90 degrees and use the columns to line up math problems and place value
- Use with students who have Color Sensitivities in the blue/purple, yellow or green family
- Students who have problems spatially seeing what needs to be finished on a vocabulary or spelling paper (One line for spelling the word and the other for the definition)

Wide Line T-K Spacing Paper

- Provides a three space format for writing on each line, including one dotted line
- Lines are dark green and raised and there is a shaded region between each line
- Printed shaded lines are vertically placed on each line to help students maintain word and letter spacing
- Uses
 - For students whose major problem lies with spacing between words and lines
 - For math problems (Use the top two lines for addends, and the third line for the answer)
 - Put teacher notes or edits in the pale green area that separates each line for student writing (Choose an ink color with good contrast against the background)

Wide Ruled Raised Line Paper

- White paper with bold, dark green raised lines
- Similar to primary writing papers used in many elementary classrooms
- Uses
 - Helps them prepare most easily for transitioning back to regular primary paper
 - Use highlighter tape or highlighting on the bottom half of each line
 - Students should be instructed to write the “round part” of their letters in the colored section

Academie Jr.™ Learn To Letter With Raised Ruling Tablet

- Make learning to write a little easier and a lot more fun with a writing pad designed just for beginners.
- 4 writing tablets in one
- **Features:**
 - Quality white paper with printed and embossed solid lines
 - printed dotted lines for practicing writing the alphabet
 - Raised lines offer extra prompt for tactile learners

- Numbered steps and grooves help students write upper and lower case letters.

www.handwritingforkids.com

- Each lesson is featured on its own page, and kids are shown in simple steps how to write the numbers, letters, and sentences. Kids can trace uppercase and lowercase letters and even blank sheets are provided for kids to practice more before their next lessons!

<http://homeschooling.about.com/od/freeprintables/qt/printables.htm>

- Free printable worksheets for your students. Add these free printable worksheets, activity pages and coloring pages to your day for variety and fun.

www.incompetech.com/graphpaper

- Free online graph and line paper

Children's Speller & Dictionary

- Small, portable, hand held spell checker, dictionary and calculator
- Shows how to print and write in cursive
- Uses
 - For students who have trouble spelling
 - Can use an * for unknown letters
 - Can use a ? when don't know one letter
 - Helps select homonyms

Page Mark Dictionary

- Dictionary, calculator and currency converter
- Corrects words entered phonetically
- Uses
 - Clip it to the book that is being read for easy and quick access

Spelling Ace Plus

- Spell checker and thesaurus for 6th to 8th grade
- Uses
 - Use with students who can't spell well but know some letters in the word

Speaking Language Master

- Provides instant access to:
 - 130,000 words
 - 300,000 definitions
 - Over 500,000 synonyms
 - 10,000 antonyms
 - Phonetic Spell Correction
 - ClariSpeech (used for both words and definitions)
 - Grammar Guide
 - 12 word games

- Features:
 - Confusables
 - Context-sensitive Help Text
 - Crossword Solver
 - Dynamic Phonics Guide
 - Learning Exercises
 - MatchMaker
 - Reverse Search

- Includes:
 - 8-line display
 - Contrast control
 - Adjustable font size
 - Automatic shutoff
 - Headphone jack
 - Volume control
 - Battery low indicator

WriteRight Bookmarks

- At-a-glance referenced for writers
- Convenient
- Double-sided 3" x 9.5" bookmarks
- Portable writing references for:
 - Capitalization
 - Punctuation Marks
 - Parts of Speech
 - Cursive Letters and Print Letters
 - Proofreader's Marks

WRITE! Right Boards (Grades K-5)

- Reusable gel boards
- Use for prewriting and language arts activities, including brainstorming with graphic organizers, and monitor students' progress instantly.
- References on the flip side help students with writing activities.

QUICK-WRITE® Handbooks for Everyday Writers

Beginning • Intermediate • Advanced

Grades K–8

- Ready reference to the major forms of writing
- Overviews of writing genres, word usage, capitalization and punctuation rules, and checklists for writing and proofreading.
- Quick and easy answers to commonly asked writing questions, and guide students step-by-step in writing genres:
 - narrative
 - descriptive
 - expository
 - persuasive
 - drama
 - poetry
 - letter writing

QUICK-WORD® Handbooks

- Grades 1–7+
- Features:
 - alphabetical listings of high-frequency writing words
 - writing lines for students to add their personal writing words
 - a homophone guide
 - common abbreviations
 - state and postal abbreviations
 - months of the year
 - days of the week
 - number words
 - suffix references

QUICK-WORD® Phonics Handbook

Primary students, struggling readers, and English Language Learners strengthen reading skills with our ready reference to phonics. Students explore:

- relationships between visual clues or letters and the sounds they represent

- patterns in high-use words
- the creation of personal word lists that follow phonic patterns
 - consonants
 - consonant blends
 - consonant digraphs
 - silent consonants
 - consonants and the f sound
 - short vowels
 - long vowels
 - vowel diphthongs
 - r-controlled vowels
 - differing sound bites

SpellWell Bookmarks

- At a glance, students verify the correct spelling of the most often misspelled words. Blank lines are featured on the bookmarks for students to add their own words. Choose from three 3" x 9.5" double-sided bookmarks:
 - 60 Most Often Misspelled Words (Primary)
 - 100 Most Often Misspelled Words (Intermediate)
 - 47 Common Contractions

SPELLEX® Reference Books

- **Word Finder** (Grades 3+)

Students quickly verify correct spelling of frequently used writing words. Lists 3,000 base words with their suffix forms alphabetically—more than 10,000 of the most common words in writing.
- **Thesaurus** (Grades 3+)

Help students expand their vocabulary choices and enrich their writing. Lists more than 1,200 words found in the Word Finder. For each base word, three to five synonyms are listed.
- **Beginning Thesaurus** (Grades K–2)

Ideal for beginning writers, this new edition gives first-time experience in expanding vocabulary. Lists more than 600 base words with three to six synonyms listed for each word.

P-Touch Electronic Labeler

- Used to allow students with writing difficulties to answer short questions.
- Used to allow students to compose short sentences.

Learning Playground Tubbed Manipulatives

Low Tech Tools for Inclusive Education
 Created by: Kristie Stapler and Sharon Edwards
 Region 3 AT Facilitators
 staplerk@apsb.org edwardss@apsb.org

- These popular manipulatives come in classroom quantities packaged in reusable self-storage tubs.
- **Word Tile** container includes 160 plastic tiles. Tiles are color-coded by parts of speech: 55 nouns (blue), 35 verbs (red), 31 adjectives (green) and 39 miscellaneous such as pronouns and punctuation (yellow). Teaches sentence building and parts of speech.
- **Letter Tile** container includes 176 plastic tiles. Contains 88 uppercase and 88 lower case letters. Teaches letter recognition and spelling.

Eraser & Sharpener Set

- Different sharpeners to sharpen jumbo and triangle shaped pencils
- Erasers shaped like a triangle, rectangle, or pencil for students with fine motor difficulties
- Uses
 - Can sharpen specialized pencils from their desk
 - Erasers prevent students from rubbing too hard and tearing paper
 - With no eraser on a pencil, prevents from over erasing during writing

Ergo-Sof Pen Again

- Designed to fit in your hand to reduce tension in writing
- Puts no pressure on joints
- Comes with PDA stylus refill
- Uses
 - Use with students who have hand fatigue
 - Use stylus refill to track when reading
 - Use stylus refill to use with PDA or Dana

Evo Pen

- Reduces stress on fingers and teaches proper alignment of pen in the hand
- Puts no pressure on joints
- Uses
 - For students who hold pen too tightly
 - For students who have better control when the pen doesn't extend above the web of their hand

Evo Clicker

- Reduce stress on fingers
- Puts no pressure on any joints
- For students with arthritis or joint disorders

Low Tech Tools for Inclusive Education
 Created by: Kristie Stapler and Sharon Edwards
 Region 3 AT Facilitators
 staplerk@apsb.org edwardss@apsb.org

- Uses
 - Use with students who need short writing utensils
 - Use with students who tend to hold a pen too tightly

Multi-Color Light Pen

- Allows paper to be illuminated while writing in dark room
- Has a variety of colors to choose from
- Red and green used to focus

Neon Lites Assortment

- Assorted colors allow to write in color
- Assist with holding attention to writing task
- Uses
 - Students with ADD or ADHD prefer neon pink or green
 - Use to organize notes, proof read paper etc.

Nite Writer Pen

- Built in light helps draw attention to paper
- For students with visual impairments, perceptual problems or visual motor integration problems
- Uses
 - Provides visual attention
 - Give visual feedback
 - Assist with writing in darkened rooms

Red-Light Note-Taking Pen

- Pen has a red light that shines on the paper
- Light helps with attention and focus problems
- Comes with different color lights
- Uses
 - Use in darkened room
 - Helps when teaching to write letters

Remedy Pen

- Pen with built in grip
- Ribbed to prevent slippage
- Uses
 - For students who out grow use of a pencil grip but still need a grip surface

Ring Pen

- Designed for students with arthritis, who have pain or fatigue or have carpal tunnel pain
- Uses
 - Easy to use when you have to write and highlight – rotate pen on the finger and then can use a highlighter and then rotate the pen back around when ready to write

Pencil Grips

- A variety of colors, shapes and textures to help hold a pen or pencil
- Stetro – has indentations on 3 sides which hold fingers in correct position, the arrow must be pointed down towards the paper (for right handed people the thumb is on the star and for left handed people the left index finger is on the star)
- Add-A-Grip – encourages a comfortable grip
- Bulb grip – helps promote proper grasp and prevent finger slippage
- Pencil grip – helps exact finger placement and non-slippage
- Solo grip – exact indentations for each finger involved in gripping a pencil
- Grotto grip – places in natural ergonomic position, which elevates need for increased pressure and prevents user from reverting back to immature grasping habits
- Jumbo Pencil Grip – shaped like a pencil grip but twice as large, great for students who need more cushioning or do better with grips that open up their hand
- Kush N Flex – soft rubber grip with tiny projections like a kush ball, provides significant sensory feedback
- Noodle doodle – full length grip that runs the entire length of the pencil or can be scrunched up to provide a thicker grip
- Start Write Grip - corrects improper grips and keeps the web space open

Finger Grip Ruler

- Provides a grip to hold onto that does not interfere with measurements
- Uses
 - For more support place a rubber ball or bulb grip on top of the ruler
 - Use for tracking or copying
 - Use with hand held scanners

Hefty Tabs

- Page markers or dividers that are stiff semi-circles and are available in a variety of colors
- Removable tags
- Uses

- Mark important places in books
- Assist with turning pages in a book
- Excellent organization tool

Post-it Mini Tape Flags

- Book flags come in a variety of colors
- Uses
 - Use to help with organization
 - Use to mark notes to study, homework, chapter to read etc.
 - Place in margin where the student needs to begin writing

Redi-Tag Arrow Page Flags

- Tags come in a variety of colors
- Uses
 - Use with a stamped clock to form the minute and hour hand
 - Use tags to place by directions or places where they have to write answers on worksheets

Keystick Keyboard Labels

- Adhesive lower case keyboard labels to reduce confusion between the keyboard and what is typed on the screen
- Uses
 - Color coded labels help teach finger placement
 - Place on a flexible keyboard so student can use on a variety of computers / environments
 - Place only letters of name on the keyboard. to teach typing

Page Up

- Small, portable paper holder
- Can hold paper and color filter
- Holds up to 20 pieces of paper
- Uses
 - Works for students who need a vertical plane to read or copy
 - Can use as a portable communication or eye-gaze board
 - Can use as a portable and easy to see schedule
 - Can use to post directions to a task
 - Can easily move it around away from glare
 - Can use with math tables

Magnetic Inkjet Paper

- Special paper that can make magnets
- Uses
 - Make magnet letter, numbers or words
 - Use on cookie sheet or Stickin' Place Magnet Sheets
 - Print out a picture and cut into puzzle pieces
 - Use for daily schedule that changes

Stickin' Place Magnetic Sheets

- Flexible laminated paper which you can use with magnets
- Uses
 - Great for communication books and boards
 - Can use to spell name, words, put numbers in order etc.
 - Create magnets with pictures and words and they have to match pairs by sliding the magnets around
 - Can use with erasable markers or crayons

Mini-Magnetic Markerboards 5x8 inch

- Comes as a set of 4 markerboards that are fully erasable and are able to stick to metal surfaces
- Uses
 - Write one very large letter on markerboard and place them on a metal surface and have the students form different words from the letters.
 - Write a single digit number on the markerboard and have students make the largest number possible using all of the digits
 - Use for scratch pad

Mini-Magnetic Markerboards 3 inch

- Small markerboards that are fully erasable and are able to stick to metal surfaces
- Uses
 - Use for putting letters, words or numbers in order
 - Use for spelling
 - Matching upper and lower case letters

Standard (Blank) Markerboard Set

- Portable whiteboard that can be used with dry erase markers or whiteboard crayons (for those who need more drag)
- Uses
 - Good tool to have students practice cursive

Low Tech Tools for Inclusive Education
Created by: Kristie Stapler and Sharon Edwards
Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

- Draw a background with permanent marker so the student can use the template over and over – ex: outline the state, sentence with fill in the blank, math problems with just the math symbols

White Board Crayons

- Erasable crayon to use with a whiteboard or laminated sheets of paper
- Uses
 - Use to provide a little more drag when writing on the whiteboard

Writing Guide Fully-Lined Markerboard Set

- Provides an easy to erase surface for students to use in practicing words and/or short sentences
- Lines provide a visual help in maintaining correct letter size and helping students keep their letters on the line
- Uses
 - Write the student's name on the top line and let them copy and practice on succeeding lines
 - Have students practice the shape of letters by “erasing” the letters you write with their index finger covered with Kleenex or the eraser end of the new Markerboard pens
 - Write a sentence but leave one word blank so the student can write their word to change the meaning of the sentence (This works well with language based lessons in which we are trying to build and expand the student's oral and written vocabularies)

Writing Guide Single-Lined Markerboard Set

- Provides a simple way for students to practice writing and easily erase and correct their mistakes without going through reams of paper
- Designed for young children who are learning to write and need the additional visual help provided by primary style lines
- Allows students to draw a picture first and then write.
- Uses
 - Markerboard pens move too smoothly and rapidly for some students to control their writing or drawing – Use Markerboard or Wipe Off crayons if you need more drag
 - Have students draw a picture and then have them or help them compose and write a descriptive sentence
 - Use removable stickers (Zyron sticker maker or roll-on Post it adhesive)
 - Try “dotted” letters in one marker or crayon color and have the students trace over the top with another colored marker or crayon

- Have students practice the shape of letters by “erasing” the letters you write with their index finger covered with Kleenex or the eraser end of the new Markerboard pens
- Use with students having trouble going from print to flowing cursive letters together

Non-Slip Pad

- Non slip material
- Uses
 - On a slantboard to hold pens, books, paper, switches, etc.
 - Use to wrap around a pen or pencil when fingers tend to slip
 - Affix to bottom of ruler or protractor

Picture Schedule Strip

- Velcro Strip
- Use
 - Use as communication schedule or spelling strip

Wooden Picture Holders

- Lightweight wood with pockets
- Uses
 - place pictures for communication
 - place letters for spelling
 - place words for constructing sentences

Play and Learn Dot Coloring Book

- Coloring book that requires only dot painting
- Builds motor planning for letters and numbers

Signature/Reading Guide

- Size of a credit card
- Designed for student’s with visual impairments to sign documents
- Uses
 - Use with students with tracking problems to assist with reading
 - Can place color filter on it to assist with reading
 - Use when students need to copy words or problems and seem to get distracted by too much on a page
 - Use it to place a draw box rather than a line for student to write in

Write Size Writing System

- A systematic set of writing guides and paper to help students who have fine motor, sensory, perceptual processing, or visual problems develop legible handwriting
- Provides specifically structured visual and physical boundaries for writing
- Starts with both horizontal and vertical spacing
- Specified boundaries provide motor feedback, so the writer begins to “feel” and “see” where the written letters begin and end
- Uses
 - Step 1
 - Writer can practice correct letter formation by tracing the alphabet, their name, numbers, etc. using dry erase markers over the clear insert
 - Colored paper might also be tried under the Grid Box Insert (Some students with autism or learning difficulties may demonstrate improved visual attention to bright pink, yellow, light green, light blue or red paper)
 - Step 2
 - The Grid Box paper can be inserted and used with or without the clear plastic sheet
 - The student should remain at this level until control is achieved in keeping the letters within the confines of the boxed area and placement of the letters on the baseline
 - Step 3
 - When the student demonstrates control within the confines of the Grid Box paper, it can be removed and the vertically and horizontally lined paper should be inserted into the Write Size Template and used to practice writing
 - Step 4
 - As control is achieved, the Vertically and Horizontally lined paper can be removed and the Horizontally lined paper should be inserted
 - Provides a top line, mid-space, baseline and lower space for hang down letters
 - Graph paper may be used out of the template when the writer has demonstrated adequate control in keeping their written work within the specific confines of the designated space on the paper
 - The Write Size Writing System is meant to be used according to each student’s specific level
 - It is recommended that control first be achieved at each of the earlier more structured levels, prior to advancing to the less structured levels

- Beneficial to highlight the baseline on the various papers to improve baseline awareness

Writing Guide

- Plastic 13 opening sheet that match a standard sheet of paper
- Uses
 - Assist with handwriting by keeping letter size even and writing straight across the page
 - Use for reading or writing tasks

Tools for Reading & Copying

See it Right

- Test developed to help identify specific visual-perceptual problems caused by sensitivity to light
- 24 colors
- Anyone can administer
- 4 Step process
 - Step 1 - review work – look for difficulty reading, keeping their place, reverse letters, writing numbers backwards, irregular spacing and sizing of letters, distractible, unable to attend, eyes hurt, letters are blurry etc.
 - Step 2 - interview the child
 - Step 3 - color testing – administer test with variety of colors
 - Step 4 - follow-up

Highlighter Tape (1-inch and 2-inch)

- Removable, reusable tape that comes in a variety of colors and sizes
- Can write on the tape
- Store used pieces on laminated sheet of paper to re-use
- Uses
 - Place in margins to remind student where to begin and finish writing
 - Place over text that has to be read
 - Assist with tracking
 - Way to budget how much is highlighted
 - Can make own colored reading strips with cardstock and colored transparency file

Removable Highlighter Tape Sheets

- Cut specific size or shape to highlight a section
- Removable and reusable
- Uses
 - Highlight directions, word bank, problems, sentence they have to copy, etc.

Post-it Mini Tape Flags

- Book flags came in a variety of colors
- Uses
 - Use to help with organization
 - Use to mark notes to study, homework, chapter to read, etc.
 - Place in margin where student needs to begin writing
 - Clock hands with clock stamp

Heads up Frame Set – Large

- Variety of colored filters that are in a 4x9 frame
- Uses
 - Block in key material so don't see the entire page at one time
 - Place over a set of directions
 - Use when scanning a map to select portions to look at
 - Place over spelling words or items to copy

Heads up Frame Set – Small

- Variety of colored filters that are in a 4x4.5 frame
- Uses
 - Block in key material so don't see the entire page at one time
 - Place over a set of directions
 - Use when scanning a map to select portions to look at
 - Place over spelling words, math problems or items to copy

Reading Helper Set

- Bookmark size filters which aides in tracking and attending to what is being read or copied – one line at a time
- Uses
 - Copying at the computer
 - Assist with tracking while reading
 - Assist with tracking math problems or columns
 - ADD or ADHD – pink and green
 - Dyslexia – blue

- Place over math tables

Top of the Line Set

- Filters to assist in keeping their place as they read or copy
- Uses
 - Copying at the computer
 - Assist with tracking while reading
 - Assist with tracking math problems or columns

Transparency Files

- Comes in a variety of colors
- Uses
 - Excellent organization tool
 - Slip one sheet of paper in to help student read or copy
 - Can make filters with cardstock and transparency files

Transparency Rulers

- Use to track while reading
- Readily available
- Others won't see it as being different

3 Point Erasable Highlighter

- Two highlighting ends and one clear end that can erase what you have highlighted
- Uses
 - Highlight words they do not know and then erase it after they have looked it up
 - Highlight notes for test and erase when they have studied it

Multi-Color Light Pen

- Allows paper to be illuminated while writing in a dark room
- Has a variety of colors to choose from

Neon Highlighter Set

- Variety of colors that students can choose from
- Which one stands out or looks bolder
- Uses
 - Highlight questions, margins, words, directions, columns, routes, etc.

- Write letters with one color and have student trace letters with another color

Neon Lites Assortment

- Assorted colors allow to write in color
- Assist with holding attention to writing task
- Uses
 - Students with ADD or ADHD prefer neon pink or green
 - Use to organize notes, proof read paper, etc.

Children's Speller & Dictionary

- Small, portable, hand held spell checker, dictionary and calculator
- Shows how to print and write in cursive
- Uses
 - For students who have trouble spelling
 - Can use an * for unknown letters
 - Can use a ? when don't know one letter
 - Helps select homonyms

Page Mark Dictionary

- Dictionary, calculator and currency converter
- Corrects words entered phonetically
- Uses
 - Clip it to the book that is being read for easy and quick access

Spelling Ace Plus

- Spell checker and thesaurus for 6th to 8th grade
- Uses
 - Use with students who can't spell well but know some letters in the word

Speaking Language Master

- Provides instant access to:
 - 130,000 words
 - 300,000 definitions
 - Over 500,000 synonyms
 - 10,000 antonyms
 - Phonetic Spell Correction
 - ClariSpeech (used for both words and definitions)
 - Grammar Guide
 - 12 word games

Low Tech Tools for Inclusive Education
 Created by: Kristie Stapler and Sharon Edwards
 Region 3 AT Facilitators
 staplerk@apsb.org edwardss@apsb.org

- Features:
 - Confusables
 - Context-sensitive Help Text
 - Crossword Solver
 - Dynamic Phonics Guide
 - Learning Exercises
 - MatchMaker
 - Reverse Search

- Includes:
 - 8-line display
 - Contrast control
 - Adjustable font size
 - Automatic shutoff
 - Headphone jack
 - Volume control
 - Battery low indicator

Colored Light Bulbs

- Offers inexpensive colored lighting for small areas
- Uses
 - For learning and attention problems – bright red and green lights

Gooseneck Lamp

- Great to set up color light center with portable lamp
- Uses
 - Studying with best light improves the focus on studying and the actual retention of information (red and green are the best)

EZ Book Clip

- Steel Clip the holds the pages of a book
- Easy to use and portable
- Can be used with any size book
- Uses
 - For use with students who are physically disabled
 - Use as a bookmark
 - Use to hold color filters over a page of text

Page Up

- Small, portable paper holder
- Can hold paper and color filter
- Holds up to 20 pieces of paper
- Uses
 - Works for students who need a vertical plane to read or copy
 - Can use as a portable communication or eye-gaze board
 - Can use as a portable and easy to see schedule
 - Can use to post directions to a task
 - Can easily move it around away from glare
 - Can use with math tables

Portabook

- Compact, lightweight, adjustable and portable bookstand
- Uses
 - Students can read or copy from different orientations
 - Place giant calculator on a slant which helps visually and with targeting

Laptop Paper Port

- Works well on portable computers
- For students who prefer vertical orientation
- Use when do not have a lot of desk space on either side of a computer
- Uses
 - Place math tables, notes, rough drafts, etc.

Magnifying Bar

- Designed for students with visual impairments and/or perceptual problems
- Provides small degree of magnification
- Yellow bar helps tracking across a line
- Uses
 - Copying math problems or spelling words
 - Use for tracking
 - Use when looking for a label on a busy graphic image

Pocket Magnifier

- Small plastic magnifying lenses
- For students with visual impairments and/or visual perceptual problems
- Uses
 - Help focus attention on one line of text
 - Helps with tracking

- Place over problem or word trying to copy

Signature/Reading Guide

- Size of a credit card
- Designed for students with visual impairments to sign documents
- Uses
 - Use with students with tracking problems to assist with reading
 - Can place color filter on it to assist with reading
 - Use when students need to copy words or problems and seem to get distracted by too much on a page
 - Use it to place a draw box rather than a line for student to write in

Writing Guide

- Plastic 13 opening sheet that match a standard sheet of paper
- Uses
 - Assist with handwriting by keeping letter size even and writing straight across the page
 - Use for reading or writing tasks

Tools for Math

Addition and Subtraction Flexible

- Bendable, foldable and durable plastic math table
- Designed to help students with addition and subtraction facts
- Left and top column numbers are in orange and the body numbers are in green
- Each flexible Uses different colors
- Helps with visual tracking
- Uses
 - Use when working with number families
 - Small enough to take anywhere

Fractions and Decimals Flexible

- Bendable, foldable and durable plastic math table
- Designed to help students learn relationships between fractions and decimals
- One side is fractions from a whole to 12ths
- Printed on the back of each section is the decimal equivalent for that fraction

- Uses
 - Teach fraction equivalents
 - Compare fractions to whole relationships between two rows

Multiplication and Division Flexible

- A bendable, foldable, and durable plastic math table
- Designed to help students with multiplication and division facts
- The left and top column numbers are red and the body numbers are blue
- Uses
 - Portable
 - Great for visual tracking

Math Tables

- Laminated tables
- Uses
 - Use highlighter tape to help with tracking on the table
 - Use with Page Up on desk
 - Use to check own work

QUICK-MATH® Handbooks Grades 3 – 8

- Guides to common math symbols, abbreviations, measurement tools, and frequently used formulas, in easy-to-find alphabetical order.
- **Intermediate Handbook** (grades 3–5)
 - place value
 - area and volumes
 - estimating
 - averages
 - coordinates
 - algebra
- **Advanced Handbook** (grades 3–8)
 - exponents
 - box and whisker plots
 - ratios
 - mean, median, mode
 - square roots
 - flips, turns, slides
- Feature reference guides for:
 - common math symbols
 - abbreviations
 - measurement tools
 - frequently used formulas

MathPath Bookmarks Grades 1-8

- Addition Facts
- Subtraction Facts
- Multiplication Facts
- Division Facts
- Prime and Composite Numbers
- Conversion of Fractions to Decimals and Percents
- Conversion of Standard/Metric Measure
- Geometry
- Common Math Symbols
- Common Math Abbreviations

Advanced Math Magnets

- ½” square magnets
- Even numbers and zeros are red
- Odd numbers are blue
- Includes digits, parenthesis, fractions, and/or decimals
- Uses
 - Use with Stickin’ Place Magnetic Sheets
 - Use with the Magnetic 3-in-1 Easel
 - Use with the Magnetic Hundreds Board
 - Use with students with fine motor problems
 - Use for counting by twos using the built-in color coding
 - Use on large whiteboards at the front of the room so the student can display his work

Learning Playground Tubbed Manipulatives

- These popular manipulatives come in classroom quantities packaged in reusable self-storage tubs.
- **Coin and Currency** container includes 318 pieces. Contains coins and currency bills. Teaches money-handling skills and counting.
- **Number Tile** container includes 175 plastic tiles. Contains 150 numbers and 5 tiles each of mathematical symbols. Teaches practice problem-solving skills through adding, subtracting, multiplying and dividing.
- **Telling Time** container includes 180 chips showing digital, written and analog times. Teaches telling time in 3 formats and reinforces matching skills.
- **Animals** container includes 100 plastic animals. Includes 20 each of bears, dogs, cats, turtles and alligators in 5 different colors. Teaches sorting and counting.

Magnetic Hundreds Board and Magnetic Multi-Color Graphing Tiles

- 16/16 inch laminated surface that can be folded
- It can be used with magnets, erasable marking pens or crayons, removable stickers or highlighter tape
- The graphing tiles come in 4 colors: red, green, blue, yellow
- Uses
 - Use as a typically hundreds board
 - Create bar graphs
 - Turn bar graphs into line graphs with an erasable marker
 - Make pictographs with removable stickers
 - Compute math problems in the very large squares
 - Create simple crossword puzzles

Magnetic Math Set

- Includes a pre-printed sheet of numbers and operation signs in a variety of different text and background colors and a Stickin' Place Magnetic Sheet
- Uses
 - Put jumbled numbers in correct order
 - Make equations
 - Practice correct sequencing of their telephone numbers and street numbers

Stickin' Place Magnetic Sheets

- Flexible laminated paper which you can use with magnets
- Uses
 - Great for communication books and boards
 - Can use to spell name, words, put numbers in order, etc.
 - Create magnets with pictures and words and they have to match pairs by sliding the magnets around
 - Can use with erasable markers or crayons

Bar Magnifier w/Ruler

- Designed for people with visual impairments
- Works for students who need to attend to a problem

Master Ruler

- Helps students learn how to measure with and read a 12-inch ruler step by step
- Consists of 5 different layers all connected by plastic rings on the bottom
- All of the layers are clear plastic and progressively divide the inches into halves, quarters, eighths and sixteenths
- Different colors for different lengths

Low Tech Tools for Inclusive Education
Created by: Kristie Stapler and Sharon Edwards
Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

- Uses
 - Helps students hold papers that they are measuring.
 - Compare fractions of wholes using the Fraction Pie Stamps, use different color inks to correspond to the tick markings on the ruler
 - Visual example of equivalents and the simplest form

Finger Grip Ruler

- Provides a grip to hold onto that does not interfere with measurements
- Uses
 - For more support place a rubber ball or bulb grip on top of the ruler
 - Use for tracking or copying
 - Use with hand held scanners

Softgrip Non-Slip Ruler

- Ruler that does not slip away
- Uses
 - Allows student to hold ruler in place with no downward pressure
 - Use to measure, tracking while reading or copying

Illuminator Protractor

- Provides the user with a high quality clear plastic protractor with added light
- Uses
 - Use with lighted pens
 - Use with visually impaired students

Time Timer

- You can use Time Timer products to:
 - Promote efficient use of time
 - Master the concept of time
 - Encourage autonomy and independence
 - Achieve better time management
 - See elapsed time in a sound-sensitive environment
 - Time repetitive patterns or actions
 - Time exercises, teaching sessions, meetings, homework, duration drills, tests and any other timed activity

The Master Clock

- The Master Clock with its patented clear-plastic overlays and color-coordinated removable hands makes learning to tell time easy and fun.

Clock Markerboard Set

- Permanently printed with an analog and a digital clock
- Uses
 - Put hands on the clock and let the students write the digital time and visa versa
 - Portable reminder for students
 - Copy the hands from the wall clock
 - Use for elapsed time (current time in red and new time in blue)

Grid Markerboard Set

- A full sized personal markerboard with $\frac{1}{4}$ ' grid squares.
- Uses
 - It is easier for students with fine motor problems to count and track across grid lines and to create accurate graphs of equations
 - Make of photocopy or digital picture of the student's work to be turned in
 - Good tool for creating line and bar graphs
 - Create reusable behavior charts

Mini-Magnetic Markerboards 5x8 inch

- Comes as a set of 4 markerboards that are fully erasable and are able to stick to metal surfaces
- Uses
 - Write one very large letter on markerboard and place them on a metal surface and have the students from different words from the letters
 - Write a single digit number on the markerboard and have students make the largest number possible using all of the digits
 - Use for scratch pad

Place-Value Markerboard Set

- A pre-printed, personal sized white board designed to help students see and understand place value
- Designed to be used in the portrait orientation
- Uses
 - Read a number and have students write it correctly on the board
 - If student has difficulty with the decimal point, mark it on the board with a colored vertical line drawn with an erasable pen or with a strip of highlighter tape
 - For added visual enhancement, color code the place value columns with different colored pieces of highlighter tape

Clock Stamp Set

- Consists of two stamps – one that shows an analog and digital clock face and the other an unnumbered analog clock face
- Uses
 - Make worksheets utilizing both ink and paper color
 - Use Wikki Stix for the hour and minute hands
 - Have students copy the numbers from the wall clock (Check for copying problems)
 - Use for scheduling
 - Use to wean from the elapsed time Time Timer to the use of a regular clock
 - Use in science lab when measurements must be taken at specific time intervals

Fraction Pie Stamps

- Includes 6 rubber stamps: whole, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{8}$
- Uses
 - Create custom worksheets
 - Use different color ink so the student can relate fraction and colors
 - Stamp on a clear sheet and slide over another stamped pie to see relationships

Numberline Stamp Set

- Set of 4 different stamps designed to help teachers and students create number lines on paper
- Uses
 - Create a permanent numberline for student use by printing and laminating
 - Use 1-20 stamp to help students learn how to skip count or start with simple multiplication
 - Use to illustrate or figure out a solution for each calculation
 - Create a pH scale for lab experiments
 - Illustrate short and simple timelines in history

Thermometer Stamp

- Helps students see relationships between Celsius and Fahrenheit temperature readings
- Uses
 - Use a strip of highlighter tape along with the thermometer stamp on paper to show students how the temperature rises or falls during the day
 - Have students keep track of weekly or monthly temperature highs and lows

X-Y Axis Stamp

- Designed to help students hasten and neaten their work through simple graphing or plotting problems without having to create their own graph on paper
- Uses
 - Students with color or light sensitivities often do better when the graph color is their “preferred color” and their work is in typical pen or pencil color
 - Use highlighter tape to enhance the X and Y axis
 - Use different color wide highlighter tape to distinguish between the different quadrants

Money Books

- Ideal for community-based or classroom instruction, these laminated money cues have full-color images of coins and bills to make money identification easy.
 - **Coin Flip** shows coin combinations with actual size coins so users can match to sample. You need \$.30, for example? Just flip to the .30 page and it shows several combinations of coins that give you \$.30! Because the coins' images are actual size, you can match real coins to the images.
 - **Ten Dollar Book** shows bill combinations up to a ten dollar purchase and when users should expect change back. If you need \$7.00, for example, flip to that page and you'll see you can use 7 one-dollar bills, or a five and 2 ones, OR, you can use a \$10 bill and expect \$3 in change.
 - **Coin Book Cue** is a pocket-sized cue that shows coin combinations you might need for bus fare, pay phones, vending machines or other small purchases.

Coin-u-lator

- Calculator with coin and dollar shaped buttons
- Uses
 - Learning to count or use money more accurately
 - Learn how to make change
 - Learning to skip count by 5's or 10's to help with counting

Giant Calculator

- It is the size of a sheet of paper
- Special features: size of keys, size of display, space between buttons and the high contrast between the letters and the key background
- Uses
 - Use with students with fine motor or visual needs
 - Use with student who have attention problems

Low Tech Tools for Inclusive Education
Created by: Kristie Stapler and Sharon Edwards
Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

- Use in a vertical orientation

Talking Calculator

- Gives visual and auditory feedback
- Uses
 - Use when having problems visually and accurately transferring information from calculator to the paper

TI-15 Explorer Calculator

- Good for helping students who are beginning to work with fractions
- It shows the problem as the student should have written it on paper
- Includes a feature that creates problems and lets the student guess until he or she gets the correct answer

Master Fraction Set

- Allows students to see fractions as part of a whole to see the relationships between fraction families
- The set has 3 books that are bound with plastic rings, the bottom is white with clear layers depicting different fractions
- Uses
 - Use on overheads
 - Compare fractions
 - Color one or more of the sections in a figure with an erasable marker and have a student identify the fraction colored

Math Grids

- Grids provide visual support and structure when lining up math problems
- Uses
 - For students who's problems tend to run into each other
 - Use with number stamps
 - Use small grids with writing to assist with proper spacing between letters/words

Math Line

- It consists of a wooden bar that attaches to the desk with suction cups on both ends
- On the bar are evenly spaced numbers 1 – 31 written from left to right
- Around the bar are 31 easily movable plastic rings
- Uses

- To add: move all rings to the right
 - Move the first addend number of rings to the left
 - Move the second addend number of rings to the left
 - The answer is the number next to the last ring on the left
- To subtract: move all rings to the right
 - Move the correct number of rings that correspond to the number being subtracted from to the left
 - From that group on the left, move the number of rings to be subtracted back to the right
 - The answer is the number next to the last ring on the left.
- To multiply: move all the rings to the right
 - Choose the largest factor and count out that number of rings – move it to the left
 - Keep counting out sets of this number until the number of sets equals the second factor being multiplied
 - When all sets are counted out, move them to the left, the product is the number next to the last ring on the left
- To divide: move all the rings to the right.
 - Count out the number of rings equal to the dividend and move them to the left
 - Now move groups of rings equal to the divisor to the right
 - Count the number of groups to get the answer
 - If there isn't a complete group at the end, this is the remainder

Math Maker Templates

- For addition, subtraction, multiplication and division practice
- Gives students step by step help with solving problems

www.incompetech.com/graphpaper

- Free online graph and line paper

Low Tech Tools for Access

Switches

- A switch is a mechanical device that closes an electrical circuit to turn something on or off
- Can be used to operate toys, computers, environmental control units, mobility aides and communication devices
- Come in variety of sizes, shapes, textures and colors
- Types of switches:
 - Touch activated with feedback - Big Red, Jelly Bean and Spec Switch
 - Touch activated without feedback - Pal Pad
 - Touch and bend - Ribbon Switch
 - Touch without pressure - Microlight Switch
 - Air pressure - Squeeze Switch
 - Tactile switches - Gooshy Switch, Oval Texture Switch and Ring Saucer Switch

Toys

- Come from a variety of vendors
- Can provide auditory, kinesthetic, tactile, visual or multi-sensory feedback
- Can come with a built-in switch for students with low cognition
- Can make your own toys using battery interrupters
- Types of toys:
 - Animal toys
 - Bubble machine
 - Character toys
 - Cars
 - Fans
 - Puzzles
 - Scissors
 - Staplers
 - Tape recorders and CD players
 - Televisions and remote control
 - Vibrating pillows/toys
 - Video camera

Latch Timers

- For students who are not able to sustain pressure on a switch to activate appliances/toys
- Includes 3 modes:

- Timed in seconds - once switch is activated appliance/toy will run from 1-60 seconds
- Timed in minutes - once switch is activated appliance/toy will run from 1-60 minutes
- Latch - the first switch activation turns appliance/toy on and the second activation turns the appliance/toy off

Power Link

- Gives students the ability to control most electrical appliances, tools and toys with just a switch
- Can use with shredder, blender, mixer, stapler, food processor, etc.
- Includes 4 modes:
 - Direct - keeps the appliance/toy on as long as the switch is activated
 - Timed in seconds - once switch is activated appliance/toy will run from 1-60 seconds
 - Timed in minutes - once switch is activated appliance/toy will run from 1-60 minutes
 - Latch - the first switch activation turns appliance/toy on and the second activation turns the appliance/toy off

Switch Interface

- A interface for PC and Mac to make computers accessible for students who use a switch
- Can use with various cause/effect software programs (Creature Antics, Creature Chorus, Everybody Has Feet, Switch Arcade, etc.)
- Can use with various scanning software programs (First Words, Early and Advanced Switch Games, Bailey's Book House, etc.)

Resources

- Ablenet - <http://www.ablenetinc.com/>
- Enabling Devices - <http://enablingdevices.com/home.aspx>
- Region 3 AT Center - <http://www.apsb.org/schools/lss/AsstTech/home.htm>
- Stages Software Solutions for Special Needs - <http://64.65.232.102:591/chartsonline.htm>

Low Tech Tools for Communication

Eye Gaze Board

- Clear plastic board to hold up in front of student's face
- For students who can not use their hands and arms to reach or point
- Uses
 - Photographs of students, objects or vocabulary for a book/activity
 - Icons to discuss weather
 - Icons to choose materials for art
 - Icons to choose a snack or select items to use in a cooking activity
 - Icons to answer true / false or multiple choice questions
 - Use miniature objects in place of photographs for students who do not understand that photographs have meaning

Object Boards

- Boards or devices that you can place miniature objects to represent a communication want or need
- Can have speech output
- For students who do not understand that photographs or icons have meaning and need objects to request activities or objects
- Come in a variety of sizes and with up to 8 locations:
 - AMDI – Base Trainer
 - Enabling Devices – Compartment Communicator, Compartmentalized Clock Communicator, Platform Communicator
- Uses
 - Place miniature objects on board to request items, objects, activities or needs

Communication Board

- Can be made of various material: file folder, laminated sheet of paper, tempo loop fabric, etc.
- For students that can reach, grab or point to photograph or icon
- Uses
 - Photographs, icons of toys, objects to request in a class
 - Icons to answer questions from a storybook or morning circle
 - Icons to answer true / false or multiple choice questions
 - Icons to discuss weather
 - Icons to choose materials for art
 - Icons to choose a snack or select items to use in a cooking activity

Dial Scan Communicators

- A communication system that is operated by a switch
- Student presses the switch and the arm rotates around until the switch is released
- Use with students who can only activate a switch but understand that they can communicate with photographs or icons
- Come in a variety of sizes:
 - Enabling Devices – Dial Scan
 - Tash - Comboard
- Uses
 - Place photographs/icons on board to request items, objects, activities or needs

Single Location Devices

- Come from a variety of sizes and colors:
 - Ablenet - Big Mack, Big Mack Step by Step, Step by Step, Step by Step with Levels and Super Talker
 - AMDI – Partner 1
 - Adaptation – Randomizer and Sequencer
 - Enabling Devices – Talking Switch Plate
- Uses
 - Program devices with a greeting, students name, request more, finished, my turn, to say the Pledge, etc.
 - Program step by step and sequencer devices to tell a joke, call role, to sing phrases from a song, tell directions to an activity, social scripts, etc.
 - Program Randomizer with colors, names of students in a class, to play Simon Says, numbers, etc.

Two Location Devices

- Come in a variety of sizes and colors:
 - Ablenet – iTalk2 Communicator and Super Talker
 - AMDI – Partner 2
 - Enabling Devices – Rocking Plate Switch
- Uses
 - Program device with to make choices between items or objects
 - Program with vocabulary to answer questions
 - Program with personal information

Four Location Devices

- Come in a variety of sizes and colors:
 - Ablenet – Super Talker
 - AMDI – Partner 4 and Tech Four

Low Tech Tools for Inclusive Education
Created by: Kristie Stapler and Sharon Edwards
Region 3 AT Facilitators
staplerk@apsb.org edwardss@apsb.org

- Enabling Devices – Cheap Talk 4
- Uses
 - Program device with to make choices between items or objects
 - Program with vocabulary to answer questions
 - Program with personal information
 - Program with vocabulary to participate in an activity

Eight Location Devices

- Come in a variety of sizes:
 - Ablenet – Super Talker
 - AMDI – Tech Talk and Tech Talk Environmental Control
 - Enabling Devices – Cheap Talk 8
- Uses
 - Program with vocabulary to make choices between items or objects
 - Program with vocabulary to answer questions
 - Program with personal information
 - Program with vocabulary to participate in an activity
 - Program ECU devices to operate appliances, a tape recorder and lights

Thirty-Two Location Devices

- Come in a variety of sizes:
 - AMDI – Tech Speak and Tech Scan
- Uses
 - Program with vocabulary to make choices between items or objects
 - Program with vocabulary to answer questions
 - Program with personal information
 - Program with vocabulary to participate in an activity