

63RD CONFERENCE ON EXCEPTIONAL CHILDREN

Believing In Achieving

SHERATON FOUR SEASONS | KOURY CONVENTION CENTER | GREENSBORO, NC



Tech-It to the Limit

Using Light Tech Strategies
to
Enhance Student Success





Presenters

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 - CIDD and Lee Co Schools
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- Becky Edmondson Pretzel, PhD
 - CIDD



www.wordle.net



Focusing on Specific Demands

Early Education

- Finding my way and my stuff
- Sitting in one place
- Sharing
- Basic skills

Middle School

- Expanded group work
- Expectations for self-management
- Independent work

Upper Elementary

- Group work
- Early tech use
- Organizing for long term projects

High School

- Independent work
- Self-advocacy
- What's next...the BIG transition!



Academic Skills and Universal Design for Learning (UDL)

- UDL: “a framework for making curriculum more inclusive”
- Consider the *what, how, and why* of learning to guide:
 - Presentation of the information/content in various ways
 - Different ways the student can present what s/he knows
 - Motivational strategies for increasing student interest and engagement



Tech-It to the Limit: Reflections from Practice

- Light tech is often easier to use, more accessible in the school setting, and it works
- Use what's already available
- Involve your students in the “consumer report“ process
- Collaborate, collaborate, collaborate
- Troubleshooting tech issues takes time
- TECHNOLOGY IS A TOOL - not a “cure”



Case in point:

Video of teacher in community college

- UDL In Higher Education
- Dawn Tamarkin – Biology (4 min)

<http://www.ehhs.kent.edu/can/UDL%20Project/biology.htm>



Organization and Transition – Early Education

- Personal space
- Visual boundaries
- Workboxes/stations
- Transition cues
- Desk organizer



Organization and Transition- Upper Elementary Education

- Sticky notes
- Portable work stations
- Lock practice
- File folder schedules from Family Fun



Organization and Transition - Middle School

- School maps – practice
- Bag tags
- Teaching agenda use and agenda variations
- Cornell note strategy – clear information from The Learning Tool Box (online)





Additional Resources

- www.microsoft.com/enable/news/subscribe/

Curriculum resources

sidebar



This curriculum resource shows how the PC can be personalized for students with learning style differences or physical disabilities. It also shows how to use Microsoft Office to create accessible teaching

materials.  Curriculum Resources for Special Education for Windows 7 and Office 2010

Teacher training workshop

This workshop shows educators how to use accessibility features on PCs to help students with disabilities use computers.

 Accessibility in Education Workshop

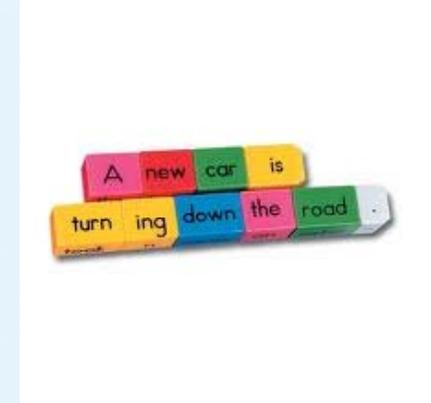
How-to articles

Learn ways to make the PC easier to see, hear, and use for learning.

- Five ways to make a PC easier to see
- Four ways to make a PC easier to hear
- Four ways to help a student control the mouse
- Six ways to help students stay focused
- Five ways to help dyslexic students get organized
- Three ways to create accessible teaching materials
- Three ways to create digital talking books for students with disabilities using Microsoft Word



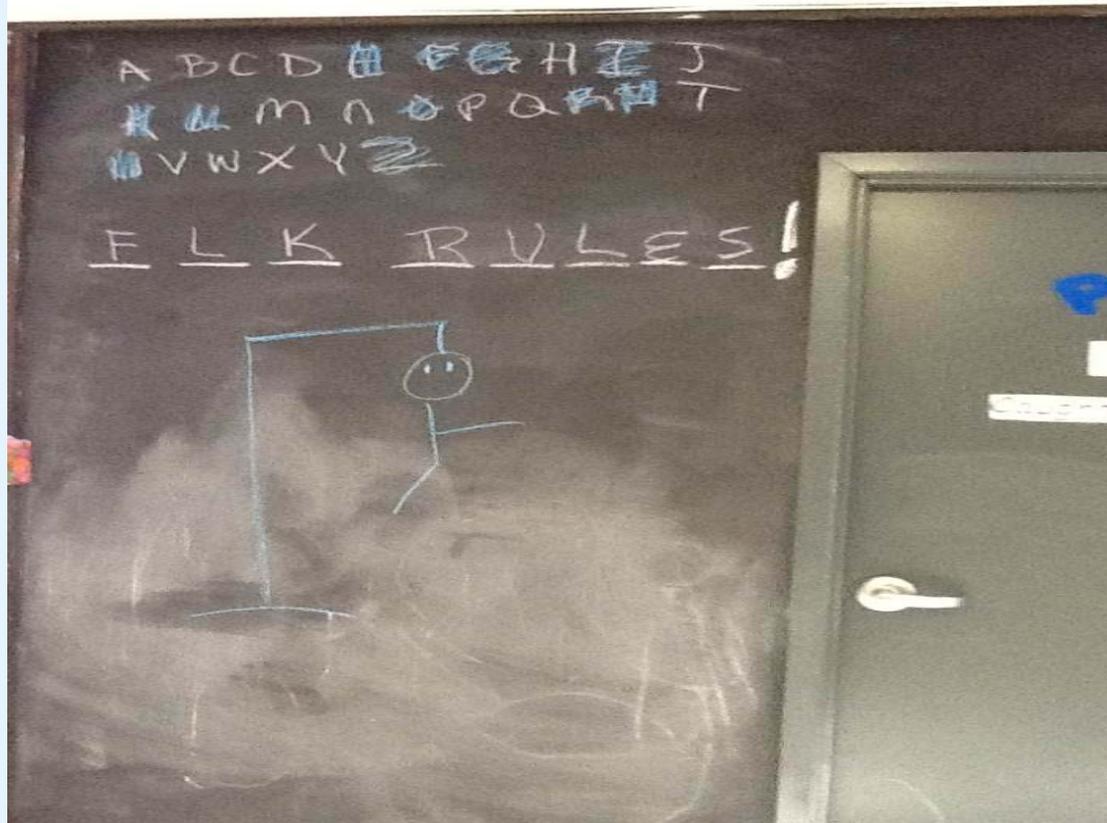
Focus on Writing and Math – Early Education



- Hands on for many students – easier shift
- Demands of K and 1st grade have increased (e.g., K sight words)
- Alternatives to writing: stamps, tablets, magnetic letters, chalkboard paint and tables, whiteboards
- Picture drawing: magazines as visual supports, step-by-step drawing (Do2learn.com), shared drawing/writing tasks, post-it note use
- Math manipulatives, games for 1-1 correspondence
- Number stamps –
 - Papersource – medium size stamps (\$29.95 /set of 10)
 - Aladine Stampominos - Number rubber stamps (\$11.69)



Example





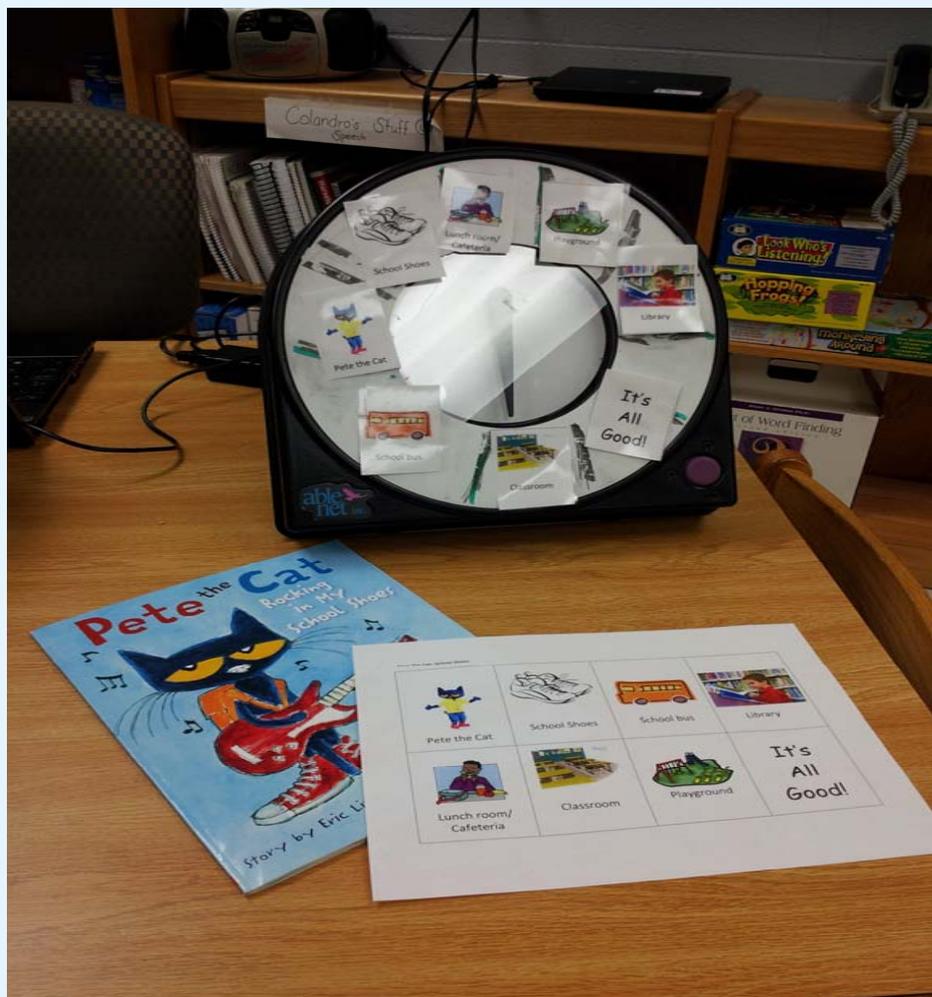
Pete The Cat: Low to High



- The book
- Online:
http://www.teachertube.com/viewVideo.php?video_id=259640
- All-turn-it activity
- Story writing – character chart
- Gross motor skills
- Music video: <http://mrschureads.blogspot.com/2011/08/pete-cat-rocking-in-my-school-shoes.html>



Example





Focus on Writing and Math - Upper Elementary

- Book making projects – foldables website:
http://www.csun.edu/~krowlands/Content/Academic_Resources/Foldables/Basic%20Foldables.pdf
- “Book as the hook”
- AT supports – laptops, Microsoft Accessibility information, Microsoft Templates, computer alternatives for word processing (Forte)
- Graphic organizers
- News to You (n2y) – 4 levels <https://www.n2y.com/news2you/>
English & Spanish, with SymbolStix (\$149/year per teacher)
- Khan Academy website: <http://www.khanacademy.org/>



Speed Make and Take – “Foldables” Books

- Materials:
 - Copy paper
 - Scissors
 - Highlighters if needed
- Uses: vocabulary, review facts, story sequences, math facts, short autobiographies



Academics – Middle and High School

- Penfriend
- Math flip books
- WATI math information
- One book, multiple approaches



Communication/Behavior – Across the Curriculum

- Sensory Bottles
- Behavior charts/rating scales
- File folder schedules
- Comic strips (www.makebeliefscomix.com)
- Apps as rewards
- Timers online, on phones, apps on tablets

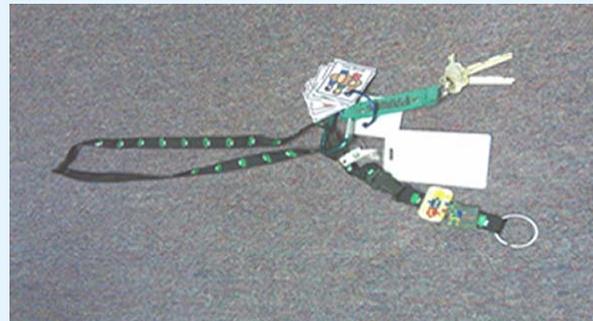




Communication/Behavior – Across the Curriculum

Visual Supports

- Schedules
- Lanyards
- First/then
- Aided language communication boards



FIRST	THEN
	



Integrated Projects – Putting it all together

- Early Education – Artist trading cards
- Middle school - Egg drop teams
- High school – News group
- Community – Visual supports workshop enterprise



Integrated Projects – Putting it all together

Early Education – Artist trading cards

- **Format:** longer term project in school art classes; modified curriculum
- **Tech used:** stamps with modified handles, Spin Art with switch, preprinted labels; uses easily available materials
- **Skills developed:** name writing, sequencing, sensory tolerances, group/organization skills
- **Resource :** <http://www.youtube.com/watch?v=iP-bER9H5Hs>
(Family Fun magazine)



Artist Trading Cards

- Photos from Family Fun by Disney





Integrated Projects – Putting It All Together

Middle school - Egg drop teams (AAC + AT)

- **Format** : science classroom group activity
- **Tech Used**: graphic organizers for group work, aided language boards, computer school tools
- **Skills Developed**: F-M skills (school tools, computer), collaboration, scientific process, sportsmanship (broken eggs☹)
- **Product**: Group science Ppt or report



Egg Drop Aided Language Board



Integrated Projects – Putting It All Together

High school – News group

- **Format:** diverse group of students from high school (public separate setting) classes
- **Tech used:** All-Turn-It, iPads, computer, highlighted keyboards
- **Skills developed:** Interviewing, keyboarding, use of photography tools, language and articulation
- **Product:** Online newspaper articles for school



Integrated Projects – Putting It All Together

High News Group



We are going to the ACC game on the bus.



Brian, PJ, Gentry, and Brent are watching basketball.



We are waiting for the basketball teams. We saw cheerleaders. The ride home was fun!



This is the ACC tournament; it's a big gym.



The scoreboard is up on the ceiling.



Integrated Projects – Putting It All Together

Visual Supports Production Workshop (*Picture This!*) for community benefit

- **Format:** Workshop in school setting; OCS students as mentors/peer buddies for various tasks in the workshop process
- **Tech Used:** Computer software, office tools (e.g., sleeve laminator), light tech jigs for sequencing tasks, photography tools
- **Skills Developed:** work behaviors, team work, F-M skills, computer skills, social skills in the community
- **Product:** Visual supports “start-up” kits for use school wide by AU Problem Solving Team and others in LEA
- **Resources:** CEC/Division of Career Development and Transition