A Philosophical and Evidence-based Basis for Including Students with Disabilities in the General Curriculum

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Snell (2003) reminds us that in addition to their collective diversity and need for supports, individuals with disabilities share a fundamental human trait, the "capacity to learn" (p. 221).

Opportunities for Interaction and Reciprocal Benefit

- ► The ways in which students with disabilities are perceived and subsequently treated by others can have a major impact on the quality of their lives.
- ► First and foremost students with disabilities are human beings—they are someone's child, someone's sibling, someone's classmate, or someone's friend.

Reasons for Optimism

Inclusive Education



Access to the General Curriculum



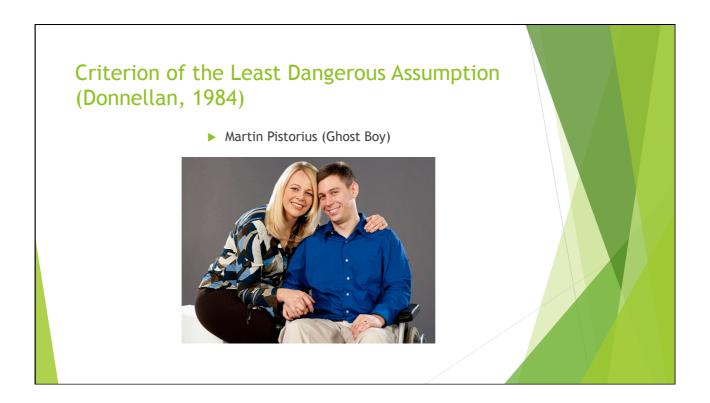
School Reform & Restructuring



Transition







Criterion of the Least Dangerous Assumption (Donnellan, 1984)

- "We should assume that poor performance is due to instructional inadequacy rather than to student deficits."
- ▶ In other words, if a student does not do well, the quality of the instruction should be questioned before the student's ability to learn.

A New Paradigm Cheryl Jorgenson (2005)

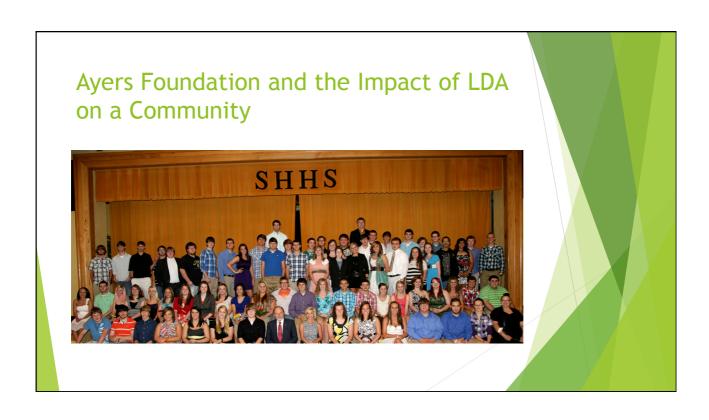
- ▶ All people have different talents and skills.
- ▶ Intelligence is not a one-dimensional construct, nor can it (or its absence) be measured accurately and reliably enough to base students' educational programs and future goals on test results.
- ► Children learn best when they feel valued, when people hold high expectations for them, and when they are taught and supported well.

Each Decade We Have Expected More from Students with Disabilities

- ▶ For Example for Sts with Severe Disabilities
- Early 1970s- Developmental Skills
- 1980s- Functional Skills
- 1990s- Inclusion/Self-Determination
- 2000s- Academic Content
- 2010-current- Academics aligned to state standards

How all of this has guided our work...

- ▶ Ann Donnelon and Cheryl Jorgenson, along with legal mandates which require access to grade aligned content, have pushed our thinking in regard to innovation and research in this area.
- ▶ Although we will always use rigorous research methodology and data to guide development and future research in this area.





Learning in General Curriculum for Ss with Disabilities Based on Leased Dangerous Assumption

- 1. Create full educational opportunity.
- 2. Promote current and future options.
- 3. Complement daily living skills.
- 4. Enhance inclusion.
- 5. Promote student abilities.

1. Create a Full Educational Opportunity

We do not know what students can achieve until they have the opportunity to learn.



2. Promote current and future options in the community and beyond

Academic Learning can enhance use of technology for daily life.



Skills like reading and math increase post school outcomes (e.g., employment, postsecondary ed.)



3. Compliment acquisition of daily living skills.

There is no evidence that a person must master all or most daily living skills before being able to learn academics. In fact that expectation is a double standard only applied to students with more severe disabilities.



4. Enhance school inclusion.

 Academic learning enhances school inclusion as students focus on the same/similar content.



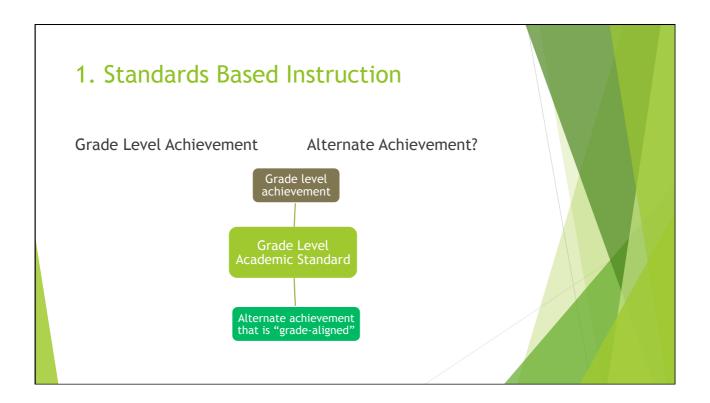
5. Promote Student abilities.

Academic learning can be augmented with technological supports and may actually be more feasible and appealing for some Ss with disabilities.



Apply the following criteria to promote LDA

- 1. Standards based instruction
- 2. Evidence based practices
- Differentiated instruction which maintains rigor
- 4. Consistent data capture and decision making



Consider a variety of ways to make standards accessible

- Prioritize
 - ► Teach a portion of the standards
- Pinpoint
 - ▶ Teach a portion of each standard
- Simplify
 - ► An extension of the standards
- ▶ Task Analyze
 - ► Skill sequences

Extending Grade Level Standards: National Standard Example- ELA Strand: Category of standard Grade level standard Objectives based on present level of performance 4th Grade **Beginning Symbolic** Leslie will select an object/picture Compare and contrast the Reading: Literature treatment of similar themes and to represent a story's theme for 4 Integration of Knowledge and topics (e.g., opposition of good of 5 opportunities. and evil) and patterns of events (e.g., the quest) in stories, myths, Early Symbolic and traditional literature from Adam will use pictures to identify different cultures. themes in literature that has been read to him and sort the different stories by corresponding themes for 4 of 5 opportunities. Thomas will use a Venn diagram to compare and contrast the themes of literature he has previously read with 90% of responses correct for at least 3 stories.

2. Use Evidence-Based Practices

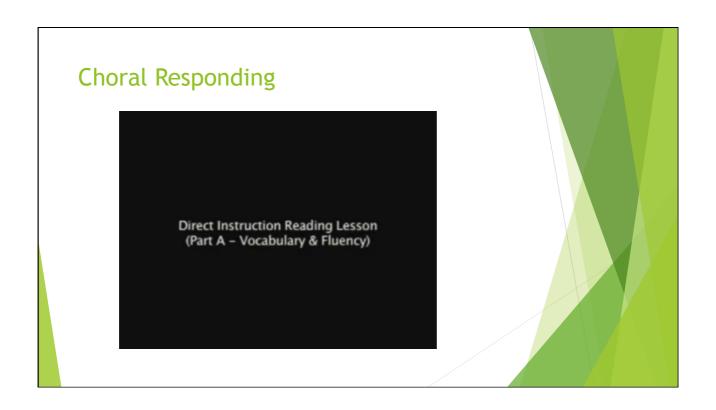
- Special Issues
 - ► Exceptional Children (Winter, 2005), V. 71-2
- ▶ What Works Clearinghouse
- ▶ National Secondary Transition Technical Assistance Center
- ▶ National Autism Centers National Standards Project
- ▶ Reviews of the Literature

Use Evidence-Based Practices

- Reviews of the literature
 - Hudson, M. E., Browder, D. M., & Wood, L. (2013). Review of experimental research on academic learning by students with moderate and severe intellectual disability in general education. Research and Practice for Persons with Severe Disabilities, 38, 17-29.
 - Spooner, F., Knight, V., Browder, D., & Smith, B. (2012). Evidence-based practices for teaching academics to students with severe disabilities. *Remedial and Special Education*, 33, 374-387.
 - Chard, D. J., Ketterlin-Geller, L. R., Baker, S. K., Doabler, C., & Apichatabutra, C. (2009) Repeated reading interventions for students with learning disabilities: Status of the Evidence. *Exceptional Children*, 75, 263-281.

Evidence-Based Practices for Students Disabilities

- ▶ Strategies that enhance student responding
 - ► Choral Responding
 - ► Response Cards
 - ▶ Model, Lead, Test teaching procedures
 - ► Systematic Error Correction
 - ► Teaching to Mastery



Choral Responding (math)



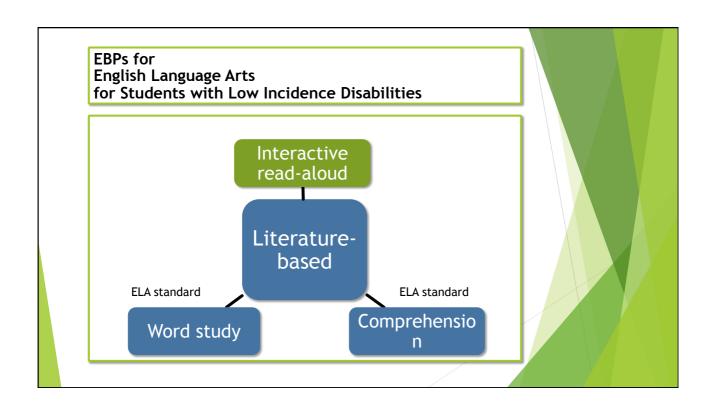
Peer Supports





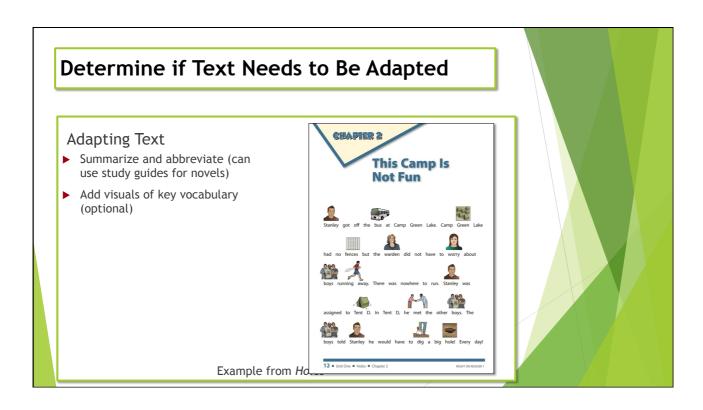
Use Evidence-Based Practices with scientifically researched curricula English Language Arts

- ▶ Hudson, M. E., & Test, D. W. (2011). Evaluating the evidence base for using shared story reading to promote literacy for students with extensive support needs. Research and Practice for Persons with Severe Disabilities, 36, 34-45.
- ▶ Browder, D. M., Trela, K., & Jimenez, B. A. (2007). Training teachers to follow a task analysis to engage middle school students with moderate and severe developmental disabilities in grade-appropriate literature. Focus on Autism and Other Developmental Disabilities, 22, 206-219.

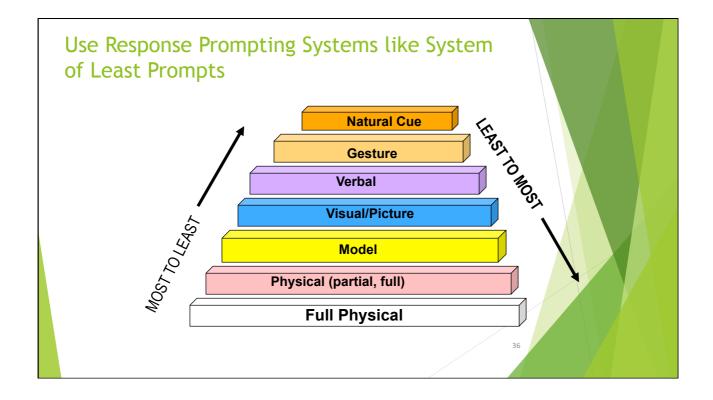








Select Key Vocabulary • Everyday speech and functional words found in the literature • Examples: man, son, mother, dream, sad, football • Academic words found primarily in written texts • Examples: act, scene, stage, tragedy, setting, tone • Words related to the topic of the text; may be the academic concepts in content area • Examples: simonize, philandering, condensation, democracy



Using Time Delay



Vocabulary Script

Using the Time-Delay Procedure

Note: "Show me" means any form of indication, including pointing to, pulling a card from a choice board, or eye gazing to a choice.

Vocabulary Carde

Round 1: 0-Second Delay

Round 1 is a warm-up round. Ss may need numerous trials at Round 1 before moving to Round 2.

Step 1 Present the vocabulary cards to a S and review them. For Level 1 Ss, present vocabulary cards in sets of 2; for Level 2 Ss, present vocabulary cards in sets of 3; for Level 3 Ss, present vocabulary cards in sets of 4.

Step 2 In this first round, give the direction to find the target vocabulary. For example, say to one 5, Show me water, and provide an immediate prompt (0-second time delay) by pointing to the vocabulary (water) while giving the direction.

Step 3 Provide feedback. If the S points correctly, provide praise, Yes, you pointed to water. If the S does not point to the correct response, use a physical prompt to help the S locate the

correct response. Then give praise, Very good! You pointed to water

Step 4 Shuffle the cards and move on to the next word.

Step 5 Repeat these steps for each S in the group

Step 5 Continue until each word has been presented 2 times.

Note: There should be no errors on this round. Do 0-second time delay 2 or 3 times. When the S consistently responds, move on to a 5-second time delay.

Round 2: 5-Second Delay

Step 1 Present the vocabulary cards to a S. For Level 1 Ss, present vocabulary cards in sets of 2; for Level 2 Ss, present vocabulary cards in sets of 3; for Level 3 Ss, present vocabulary cards in sets of 4.

Step 2 In this second round, give the direction to find the target vocabulary. For example, say to one 5, Show me water, and then wait up to 5 seconds (5-second time delay) for the 5 to independently respond or begin to initiate a response. Tell the

Choose State Standard from Grade Level

► Standard 9-12 Reading:
Informational RI 11-12.1
Cite strong and textual
evidence to support
analysis of what the text
says explicitly as well as
inferences drawn from
the text, including
determining where the
text leaves matters
uncertain.

Less Complex

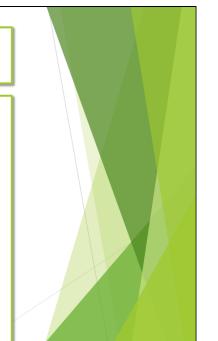
The S will identify an emotion shown in informational text

Mod Complex

The S will identify an explicit claim in informational text

More Complex

The S will cite a fact and an inference in informational text to determine an area for further exploration.



Comprehension: Develop the Questions

Develop comprehension questions at different levels of complexity. Also consider the target standard selected to write questions.

Some examples based on To Kill a Mockingbird:

Knowledge

How old was Miss Caroline?

Comprehension

Why did the class murmur when Miss Caroline said she was from Winston County? What happened first, second, last?

Application

Miss Caroline was 21. What will happen to you when you are 21?

Analysis

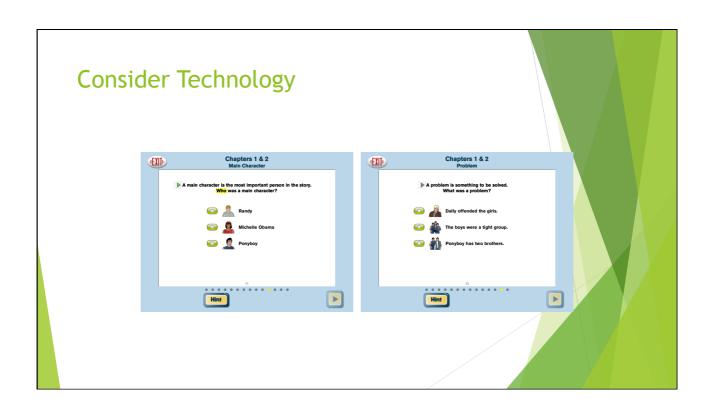
Why was Jem in a haze?

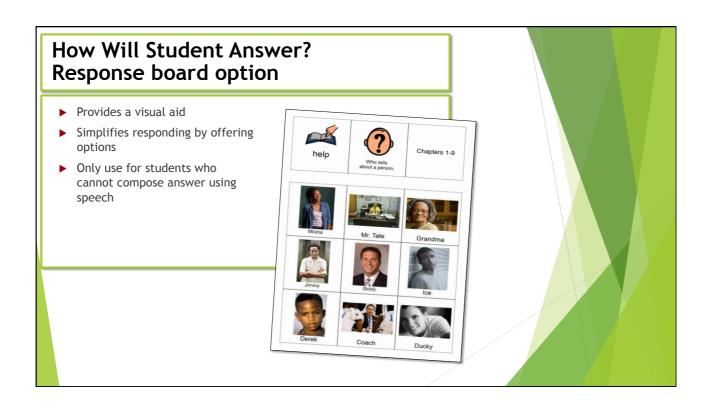
Synthesis

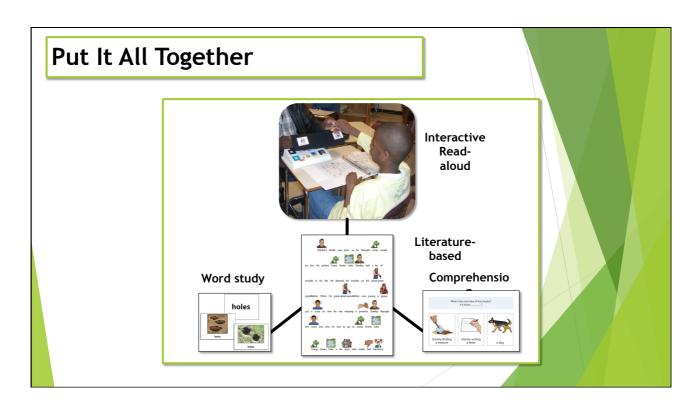
What is the theme of this story?

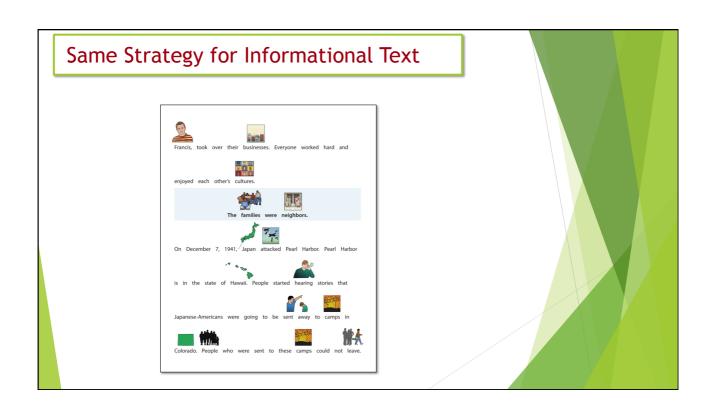
Evaluation

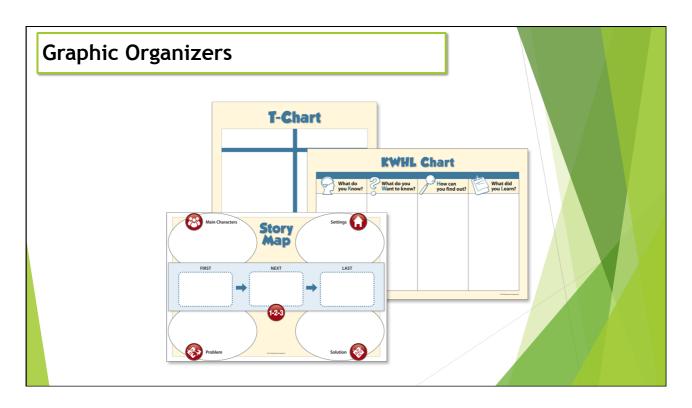
What is the author's tone in this passage? The author's purpose?

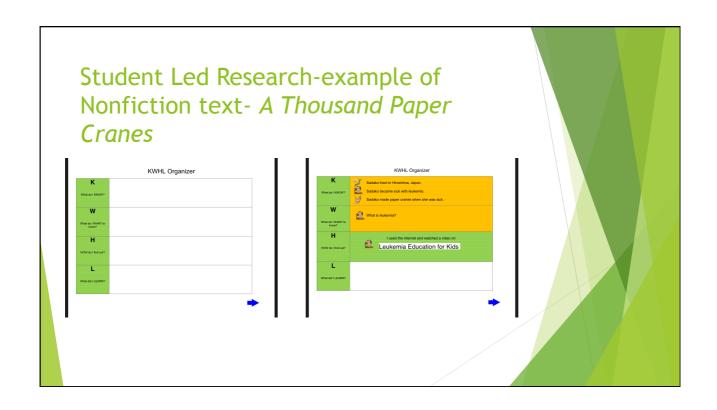










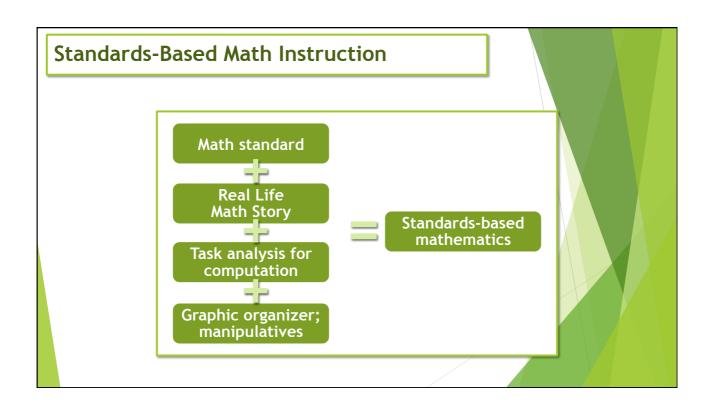


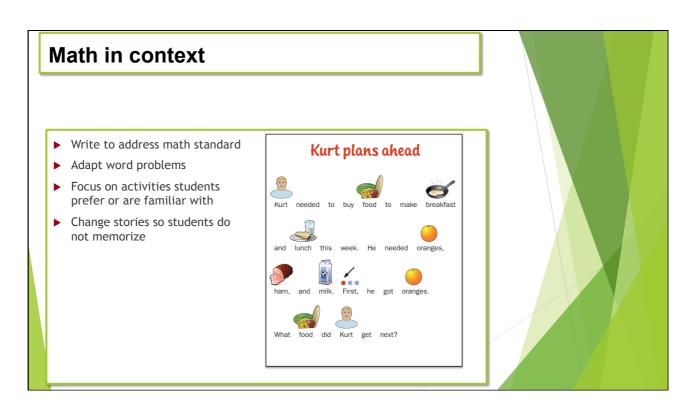


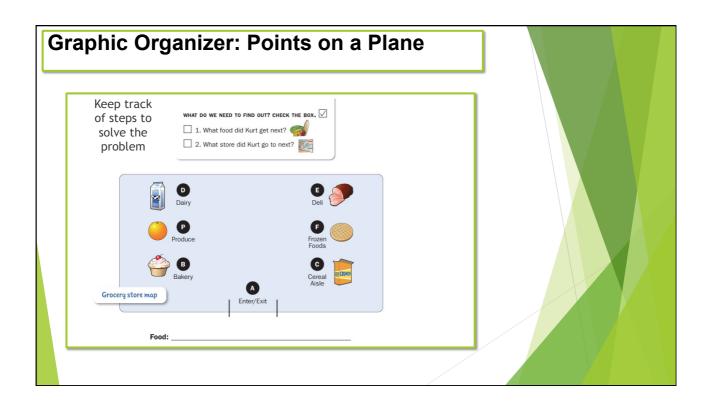
Use Evidence-Based Practice: Mathematics

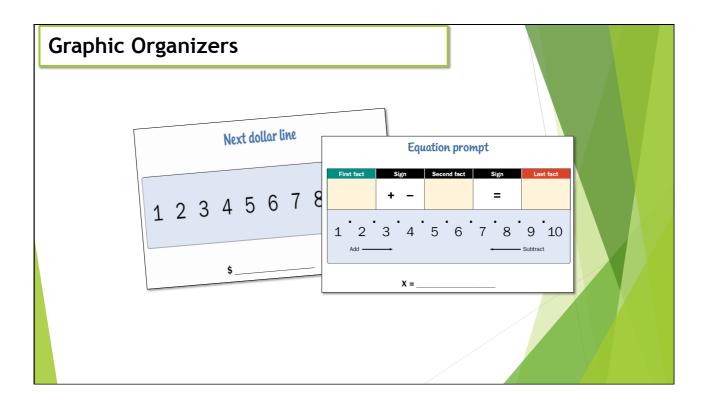
- ▶ Browder, D. M., Trela, K., Courtade, G. R., Jimenez, B. A., Knight. V., & Flowers, C. (2012). Teaching mathematics and science standards to students with moderate & severe developmental disabilities. The Journal of Special Education. 46, 26-35.
- Browder, D. M., Jimenez, B., Spooner, F., Saunders, A., Hudson, M., & Bethune, K. (2012). Early numeracy instruction for students with moderate & severe developmental disabilities. Research and Practice for Persons with Severe Disabilities, 37, 308-320.

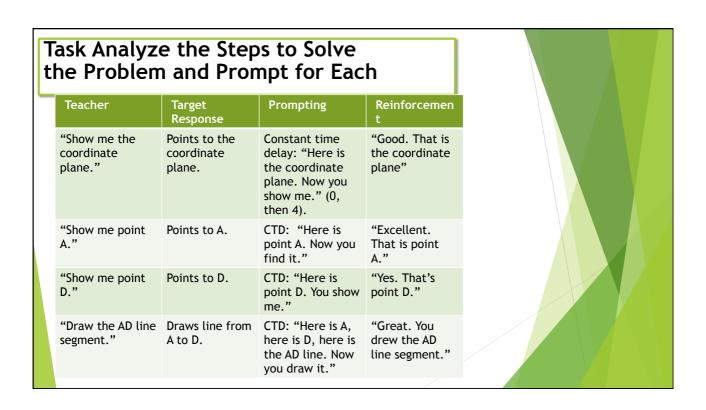


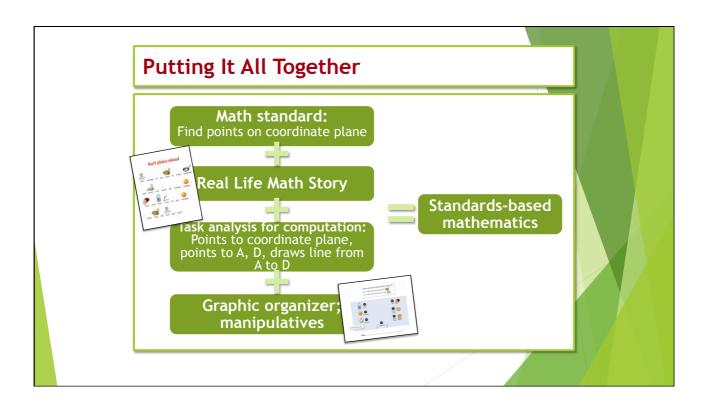












Also Build Early Numeracy Skills



Math Worksheets

Early Numeracy Skills Builder

It's time to do our math worksheet so we can summarize our story. Follow the directions as I read the math worksheet with you. Use teacher directions on worksheet as needed to help students complete worksheet.

Embedded Instruction

Use the checklist for this level to select the skills the student will embed in the math lesson in general education.

Level 2.2 Lesson Two The Chinese New Year

- 1. Mark the set that is > (greater than):
- 2. How many boys are there?

















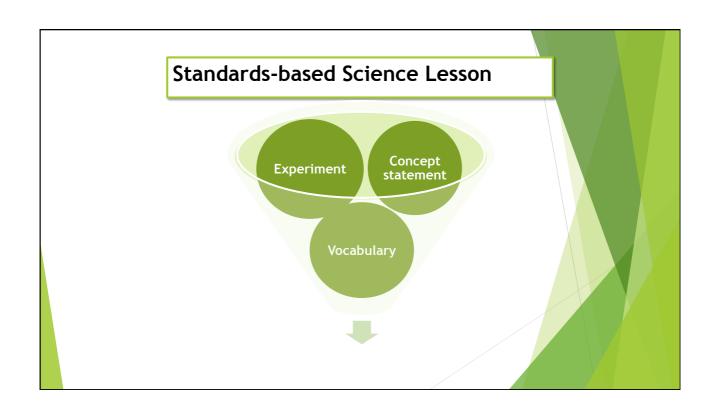


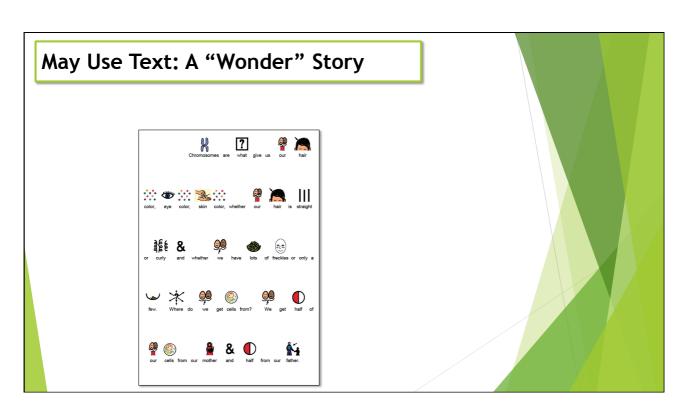
Use Evidence-Based Practice:

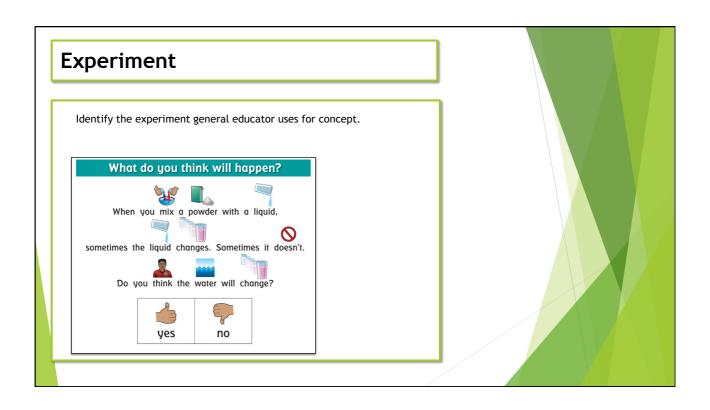
Science

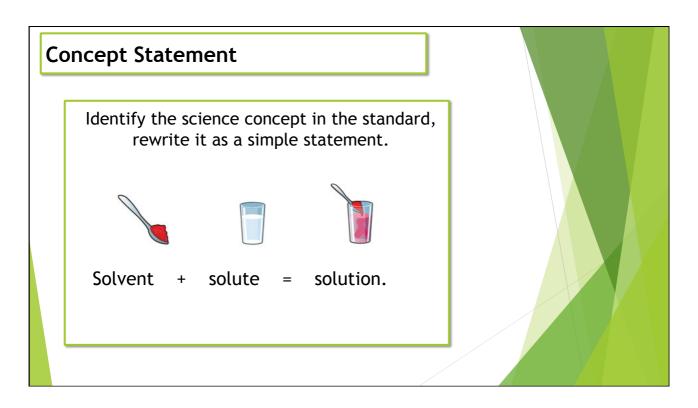
- ➤ Courtade, G., Browder, D.M., Spooner, F.H., & DiBiase, W. (2010). Training teachers to use an inquiry-based task analysis to teach science to students with moderate and severe disabilities. Education and Training in Developmental Disabilities, 45, 378-399.
- ▶ Smith, B. R., Spooner, F., Jimenez, B., & Browder, D. M. (2013). Using an early science curriculum to teach science vocabulary and concepts to students with severe developmental disabilities. Education & Treatment of Children, 36, 1-31.

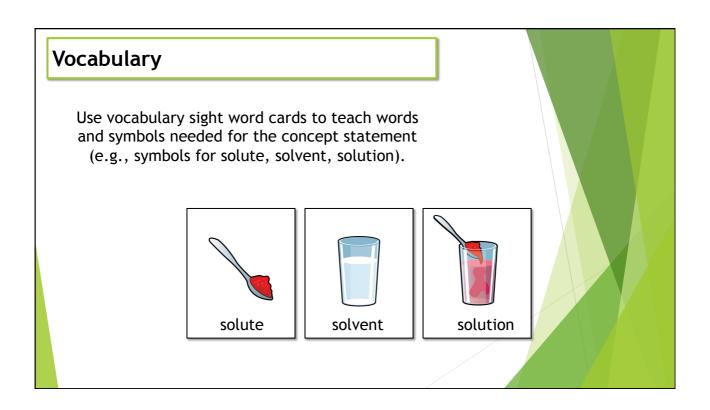


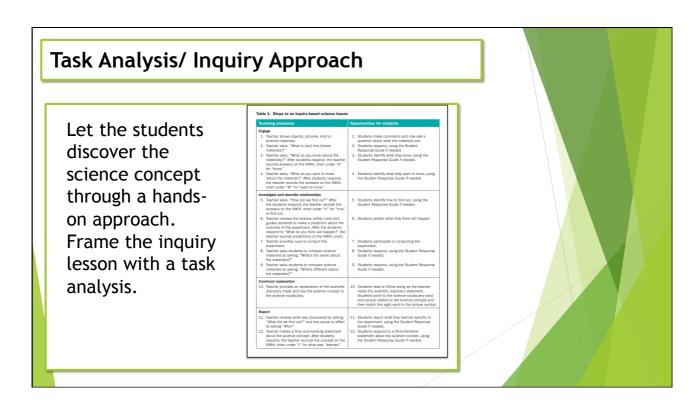


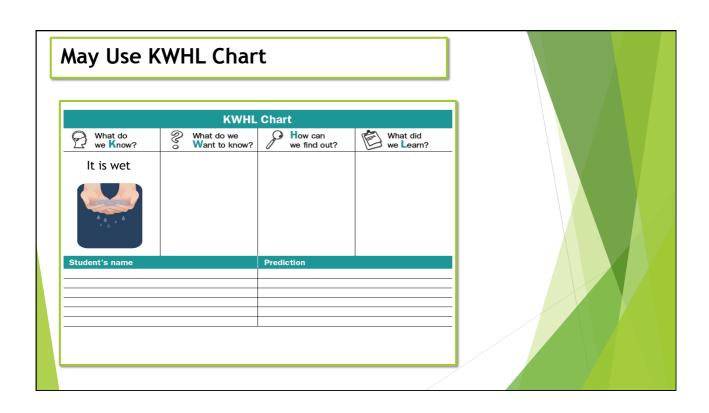














3. Build Foundational Skills-Differentiate Instruction

Lower: Early Literacy

- Begin with objects and picture books
 - ▶ Make age appropriate
- Build understanding through multisensory experiences related to story
- Watch for early awareness and anticipation of familiar story lines

Higher: Independent Reading

- Use story summary or some story lines written at student's reading level
 - Combination of teacher (or peer) read-aloud and student reading
- Teach phonics to build independence in decoding text

4. Consistent Data Collection and Data Based Decision Making Student Name: Date: Objective: The student will independently complete all 8 steps of the collective or perment Objective: The student will independently complete all 8 steps of the collective or perment Objective: The student will independently complete all 8 steps of the collective or perment Objective: The student will independently complete all 8 steps of the collective or perment Objective: The student will independently complete all 8 steps of the collective or perment or

To Promote LDA

- ▶ Teach Grade Level Content
- ▶ Use Evidence Based Practices
- Differentiate instruction for all learners
- Collect and Analyze daily instructional data

Resources and Contact Information

- Chapter
 - ▶ "What Should We Teach Students with Moderate and Severe Disabilities?"
- ▶ Browder, D. M., Jimenez, B., Spooner, F., Saunders, A., Hudson, M., & Bethune, K. (2012). Early numeracy instruction for students with moderate & severe developmental disabilities. *Research and Practice for Persons with Severe Disabilities*, 37, 308-320.
- Browder, D. M., Trela, K., Courtade, G. R., Jimenez, B. A., Knight. V., & Flowers, C. (2012). Teaching mathematics and science standards to students with moderate & severe developmental disabilities. The Journal of Special Education. 46, 26-35.
- Courtade, G., Jimenez, B., & Browder, D. (2013). Instructional strategies for teaching Common Core Standards to students with moderate and severe disabilities. Verona, WI: IEP Resources Attainment Company.
- Carnine (1976)
- ► Lambert, Cartledge, Heward, & Lo (2006)
- ▶ Lo & Cartledge (2004)
- Maheady, Mallette, & Harper (2006)
- Miller, Hall, & Heward (1995)
- ▶ Reffel, Barnett, Lee, & Patrick (2004)
- ▶ Wood (2005)

