

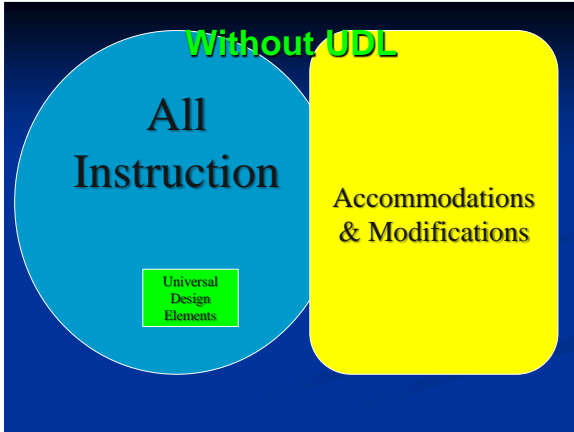
Instructional Adaptations and Apps that Promote Inclusion

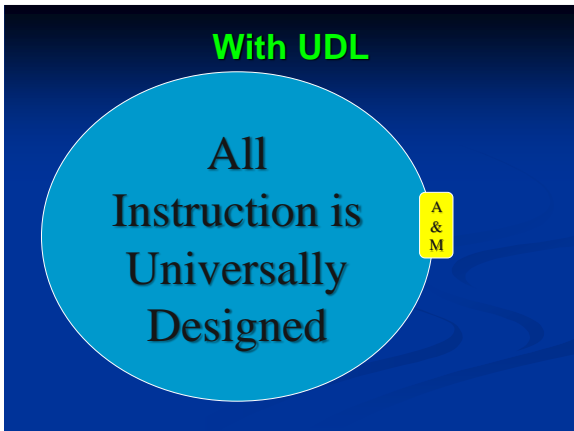
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Heart of Illinois Down Syndrome Association
September 23, 2016



This is going to be *fast*!

In an Ideal World... Universal Design for Learning





Curriculum Adaptations

May include *supports* related to the content of instruction (WHAT students are taught and expected to learn), instructional method (HOW students are taught), materials used in instruction and assessment, setting (WHERE instruction or assessment takes place), time (WHEN and HOW LONG students have to learn or take a test), and technology.

Curriculum Adaptations

Accommodations change *how* a student learns the material or demonstrates her learning. Modifications change *what* a student is expected to learn, is taught, or is expected to demonstrate on an assessment.

On an IEP they may be listed under a category called Accommodations & Modifications or under Supplementary Aids and Services.

Accommodations

- If a student has reading difficulties she might listen to an audio recording of a text.
- Using a spell-checker might help a student with writing difficulties take notes during class but wouldn't be appropriate during a weekly spelling test. However, this student might benefit from extra time to complete the spelling test or using typing technology if the physical act of writing is difficult.
- Statewide assessments allow certain accommodations like extra time or taking a computerized exam. Ideally these are the same accommodations a child uses to take class tests.

Modifications

- Students who are far behind their peers may need changes to the curriculum. A student could be assigned shorter or easier reading assignments. Kids who receive modifications are *not* expected to achieve the same standards as their classmates.
- Modifications in testing often involve requiring a student to cover less material or material that is less complex. For example, in the case of the spelling test, if the class was given 20 words to study, the student with modifications might only have to study 10 of them. Or she might have a completely different list of words.
- The gym teacher might modify the number of laps a student needs to run.

Alternate Assessment

- Students who participate in a state's *alternate assessment* based on alternate achievement standards are learning material that is reduced in depth, breadth, and complexity – that is greatly modified – but still aligned with grade level standards.
- These assessments may only be taken by 1% of students in a school district.
- Be very cautious about choosing this assessment because there might be implications for the diploma a student may earn upon graduation from high school.

IDEA Regulations Say...

- § 300.116 Placements (pg. 46765).

A child with a disability is not removed from education in age- appropriate regular classrooms solely because of needed modifications in the general education curriculum.

U.S. Department of Education 34 CFR Parts 300 and 301 "Assistance to States for the Education of Children With Disabilities and Preschool Grants for Children With Disabilities; Final Rule" – August 14, 2006

Accessible Instructional Materials

When the Individuals with Disabilities Education Act (IDEA) was reauthorized in 2004, it included a requirement that elementary and secondary school students with disabilities who need print instructional materials in an accessible format receive them in a timely manner. This means that school districts must take reasonable steps to provide accessible instructional materials (AIM) to eligible students with disabilities without delay, typically at the same time as other students receive instructional materials.

A GREAT resource: PACER CENTER: "Accessible Instructional Materials (AIM) A Technical Guide for Families and Advocates" available at <http://www.pacer.org/stc/pubs/STC-22.pdf>

Six Rules for Adaptations

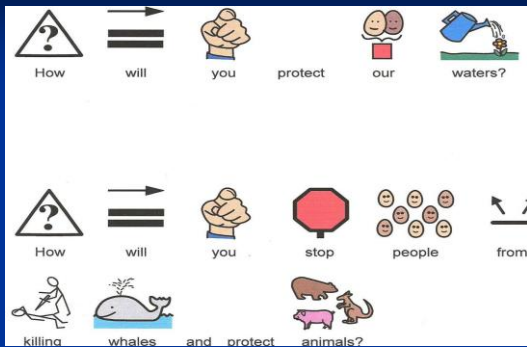
1. Make sure that the essential content of the academic standards are represented.
2. Always have the un-adapted materials available.
3. Provide more than text-to-speech access.
4. Use symbols, pictures, animation, and sound to support comprehension.
5. Accommodate for vision, hearing, and movement difficulties.
6. Focus on removing barriers to **full participation**. Don't simply provide an alternate materials to be used in an alternate activity.

Example #1: Supports for Communication

Lite Tech Communication Board



Lite Tech – Sentence Strips



Lite Tech Supports for Academic Discussion



High Tech Speech-Generating Communication Device

There are no cognitive or other pre-requisites that students must demonstrate in order to benefit from a high tech speech-generating communication device.



Example #2: Adapted Text

Read-Aloud/Text-to-Speech Software

- Read & Write Gold or Kurzweil has read-aloud
- And you can enable this feature on any computer.
 - Go to the "Customize Quick Access Toolbar" at the VERY top of a Word document.
 - Click "More Commands"
 - Click "All Commands"
 - Find "SPEAK"
 - "ADD" it to the right hand column.
 - Highlight the text you want to read
 - Click the "Speak selected text" icon – looks like a rectangular thought bubble

Other Text-to-Speech Options

- Students with physical or reading disabilities can get free digital books through BookShare. These can be read aloud. <https://www.bookshare.org/>
- Books on tape/CD
- iPad or Android apps - <http://appadvice.com/appguides/show/text-to-speech-apps-for-ipad>

Find or Create Alternate Versions of Classroom Text

Search the Internet to See What Resources Already Exist – *To Kill a Mockingbird*

- Adapted materials for unit
<http://kamforall.pbworks.com/w/page/9671794/FrontPage>
- Chapter summaries
http://issuu.com/bdbbaltazar/docs/chapter_summaries
<http://www.sparknotes.com/lit/mockin>
- Re-written text in PPT format – several versions
http://www.slideshare.net/anthony_morgan/to-kill-a-mockingbird-1455200
- I-Pad and I-Phone compatible summary of book
<http://itunes.apple.com/us/app/book-bites-to-kill-mockingbird/id309284785?mt=8>
- Boardmaker symbols and photos of TKAMB characters
<http://www.boardmakershare.com/Activity/670043/To-Kill-A-Mockingbird>

Finding Digital Versions of Books

- First look for free digital version online
 - Search in Google for "[name of book] + adapted version"
 - http://issuu.com/adrianmc/docs/nelle_harper_lee_-_to_kill_a_mockingbird
- Type the document in Word to begin, but if it is already text-on-paper, scan it on the office copier and convert it to a Word or PDF file that is sent to your computer. Create in Microsoft Word. Or scan on copier and convert to a PDF file.
 - Adobe Export software converts files from Word to PDF and PDF to Word. When a file is in Word, you can manipulate it endlessly!

More Accessible Text Resources

<http://udleditions.cast.org/>
<http://coedpages.uncc.edu/access/adaptivebooks.htm>
<http://tarheelreader.org/>
<http://www.apple.com/apps/ibooks/>
<https://itunes.apple.com/us/app/book-creator-for-ipad/id442378070?mt=8>

Autosummarize and Rewordify

- Shorten text
- Substitute easier vocabulary
- Make quizzes, cloze sentences, vocabulary study sheets, matching activities

<http://www.tools4noobs.com/summarize/>
<https://rewordify.com/index.php>

Visual Reading for iPad

<https://www.youtube.com/watch?v=gfGWaJQuZ3E>

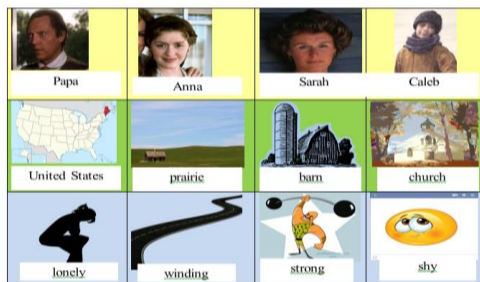
Similar to Writing with Symbols/Symwriter but you can import your own pictures or videos!



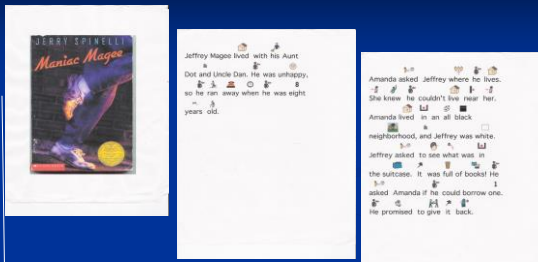
Create an Alternate Version of the Regular Text



Aided Language/Topic Board



Adapted Grade Level Novel



Rewritten by team members to late 1st - early 2nd grade level, maintaining essential content for general education quizzes/test.

Example #3: Adapted Math


Name: Sergio Date: 10/19/07

Sorting Dominoes

Materials ☐ 1 set of double-nine dominoes

- Put all dominoes with a blank half in a pile.
- Put all remaining dominoes that show 1 dot in a pile.
- Put all remaining dominoes that show 2 dots in a pile.
- Put all remaining dominoes that show 3 dots in a pile.
- Continue until all of the dominoes are sorted into groups. Discuss the patterns you see.

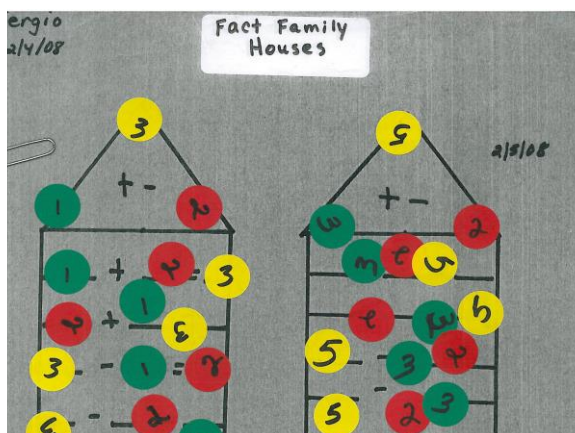
- sort dominoes according to total number of dots



Sergio
2/4/08

Fact Family Houses

2/5/08



Thinking Blocks – Interactive Math Tools

Build a model that represents the story problem.

total length

length of 1 piece

Instructions
Read the word problem. Identify the part and the total. Then build a model.
Drag blocks and labels to the targets in the work area.
Click the Check button to check your work.

Missing Product

GeoGebra– Interactive Math Tools

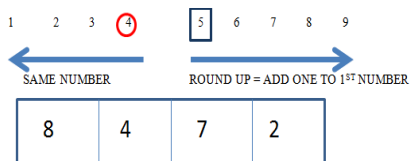
(a) How many pizzas will each person receive if 1 pizza is divided among:
(i) 2 people, (ii) 3 people, (iii) 4 people?

(b) How many pizzas will each person receive if each of the following numbers of pizzas are divided among 3 people?
(i) 2 pizzas, (ii) 4 pizzas, (iii) 5 pizzas

In general, how would you calculate $a \div b$?

4 pizzas are divided among 3 people. How many pizzas does each person receive?

Rounding Schema

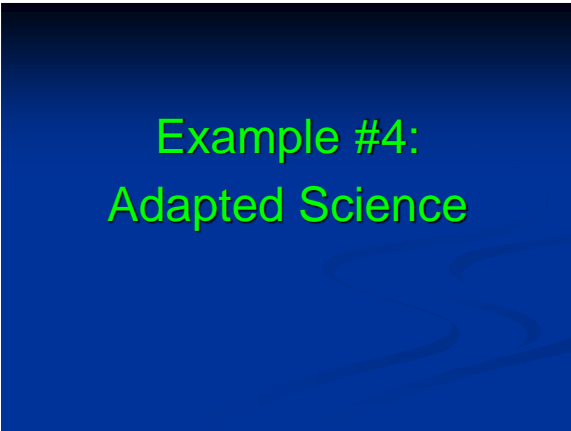


- ☐ Put your finger on the first number, say it, and write it here 8.
- ☐ Put your finger on the second number, say it, write it here 4.
- ☐ Circle the 4 on the number line using your red marker.
- ☐ Does the arrow point this way under the 4?
- ☐ If the answer is YES, the first number 8 stays the same and all the other numbers become 0's.
- ☐ Write the new number here:

3-D Polyhedrons



Example #4: Adapted Science

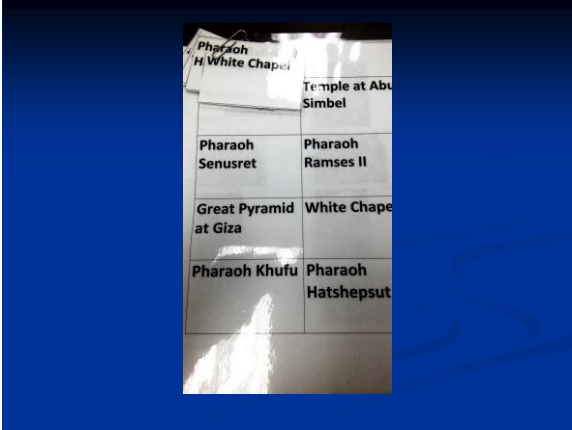


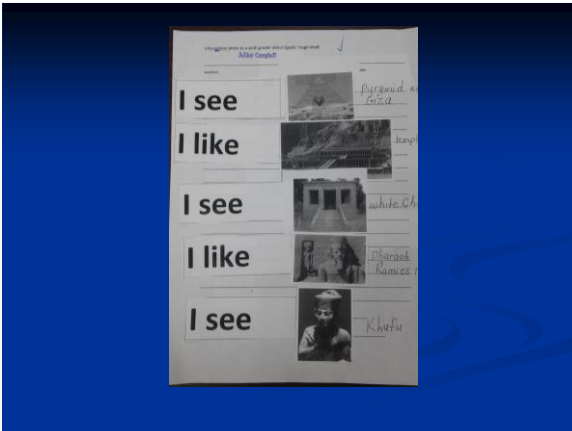


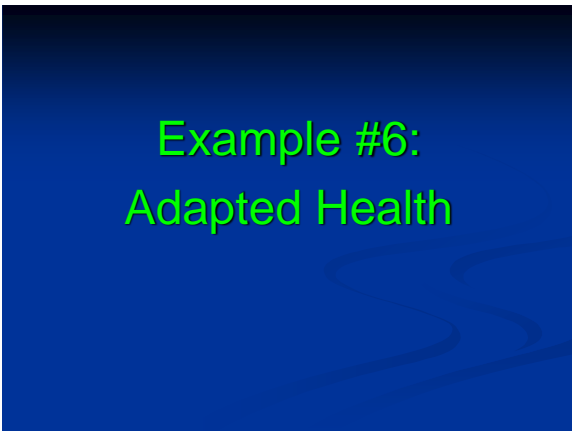


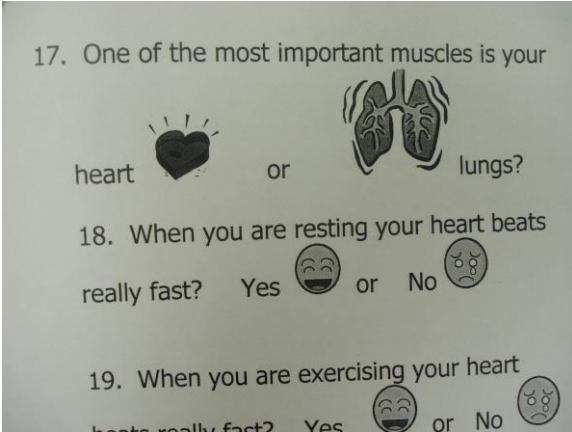
Example #5: Adapted Social Studies



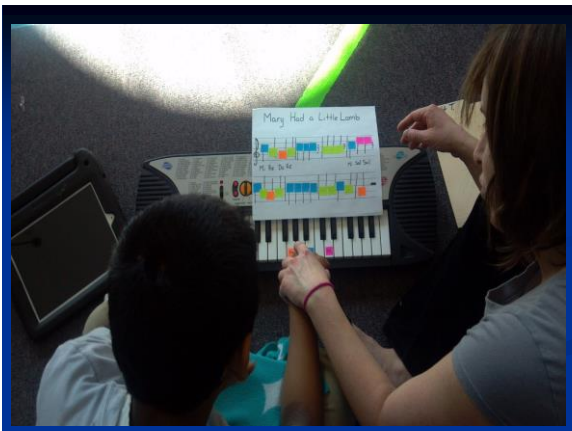




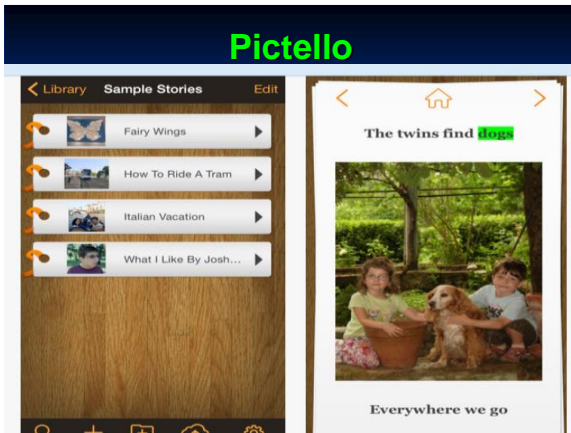








Example #8: Adapted Presentations



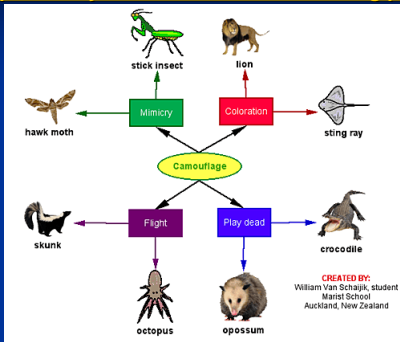
Example #9: Adapted Physical Education



Example #10: Graphic Organizers


Kidspiration or Inspiration

<https://www.youtube.com/watch?v=R2z0eRgqILw>



Example # 11: Adapted Writing

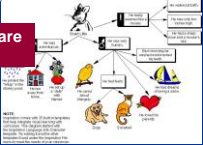
..word prediction
(Read and Write Gold, textHELP)



at
sail
the
to
what


Speak
Speak Aloud
Speak When Clicked
Type When Clicked
Print File
Type a space after the word

..webbing software
(Inspiration)




Our report is on Polar Bears.


.. a custom overlay and
adaptive keyboard
(Overlay Maker, IntelliTools)



A portable
keyboard
(AlphaSmart)



.. word stamps




.. sentence strips in science

A plant needs oxygen


A plant needs water

.. individual laminated symbols
secured with Velcro
(Boardmaker, Mayer-Johnson)

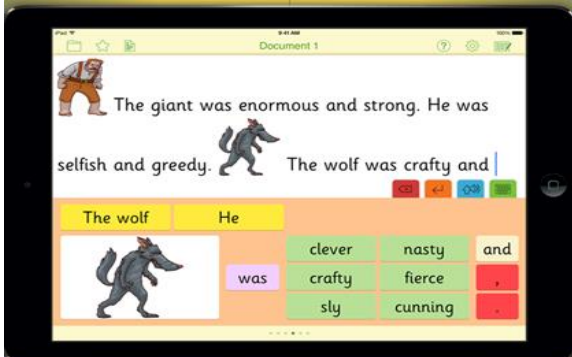


The plant needs sunlight.

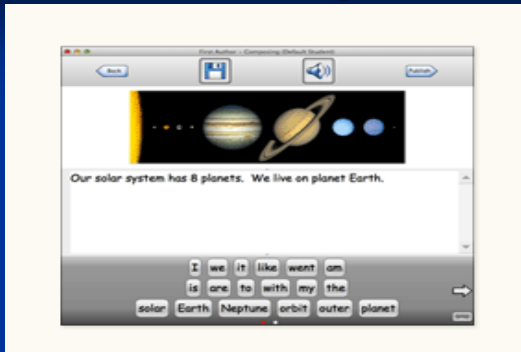
.. pictures – drawn, magazine, Google Images



Clicker Connect App iPad

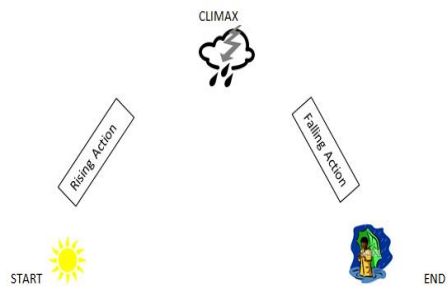


First Author Writing Software

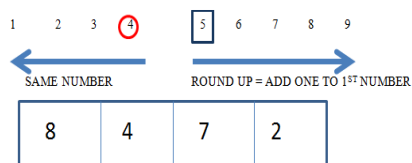


Example #12: Other Visual Supports

Rising Action Visual Support



Rounding Schema



- ☐ Put your finger on the first number, say it, and write it here 8.
- ☐ Put your finger on the second number, say it, write it here 4.
- ☐ Circle the 4 on the number line using your red marker.
- ☐ Does the arrow point this way under the 4?
- ☐ If the answer is YES, the first number 8 stays the same and all the other numbers become 0's.
- ☐ Write the new number here:

Self-Selected Reading Task Card

- 1 Choose a book
- 2 Read quietly
- 3 Choose another book
- 4 Read for 15 minutes

Math Lesson Task Card



Mad Minute



Math Message



Teacher Lecture



Journal Work



Hands-On Games



Other Examples of Adapted Materials

- Enlarge text
- Create more white space
- Re-write text
- Obtain text written at lower reading level
- Reduce volume of text
- Use graphic organizer m-
<http://www.kaganonline.com>
- Add pictures/symbols
- Change format – e.g., multiple choice to matching, fill-in-the-blank
- Digitize text
- Locate Internet resources

- Tape record text
- Provide concrete objects
- Use white board for on the spot choice-making
- Use pre-measured ingredients or pieces for assembly
- Use templates or guides for measuring
- Acquire adapted spoon, bowl, watering can, paintbrush, ball, microscope
- Load software into laptop and classroom computers

Other Great Resources

