

Using No Tech, Low Tech and High Tech Tools to Increase Student Engagement

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INSPIRED BY A PUBLIC SCHOOL STUDENT WITH DISABILITIES



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CLEARING A PATH
FOR PEOPLE WITH SPECIAL NEEDS
CLEARS THE PATH FOR EVERYONE!

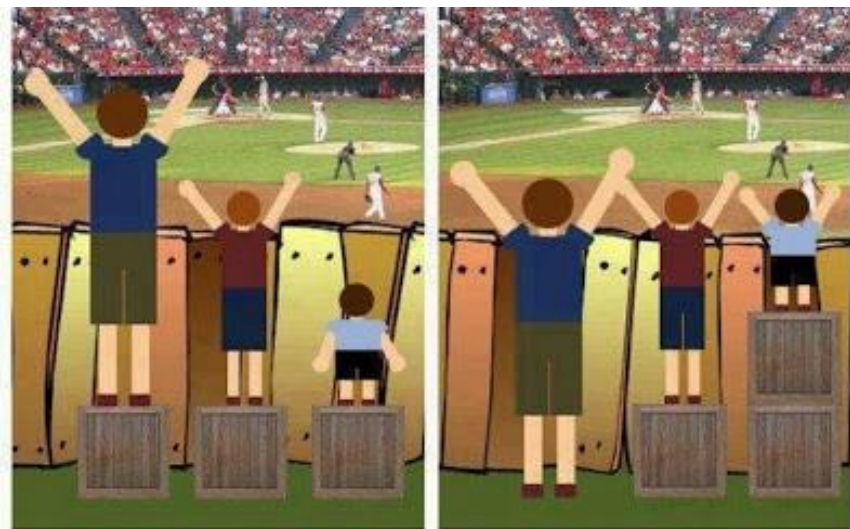
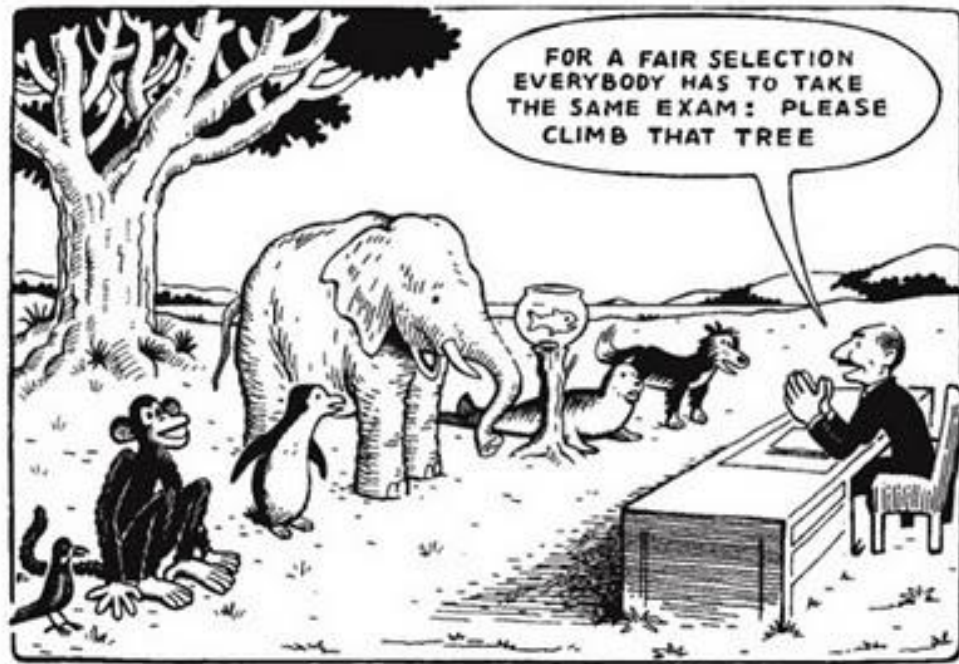
Universal Design for Learning

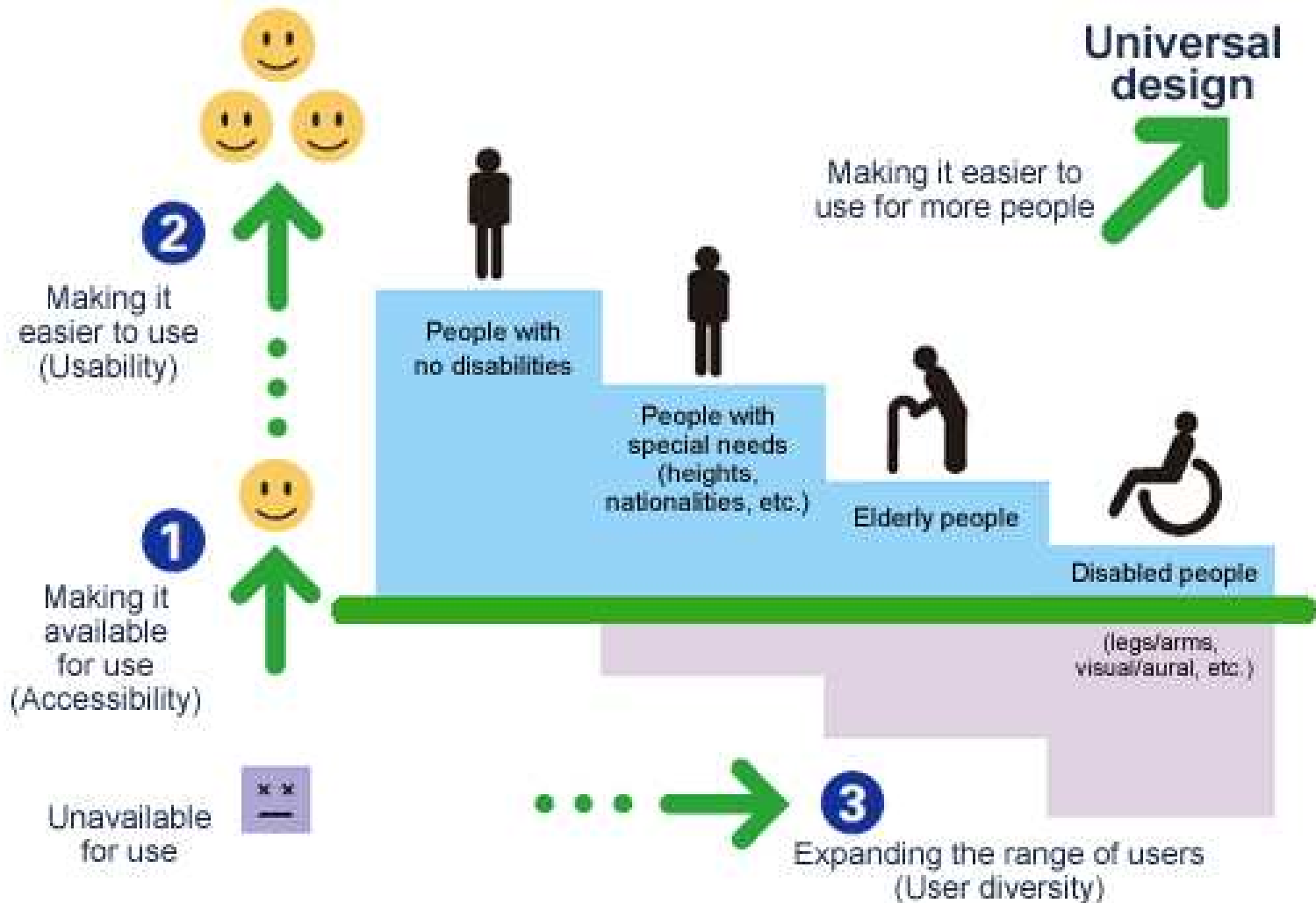
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Learning Opportunities for All



for All.

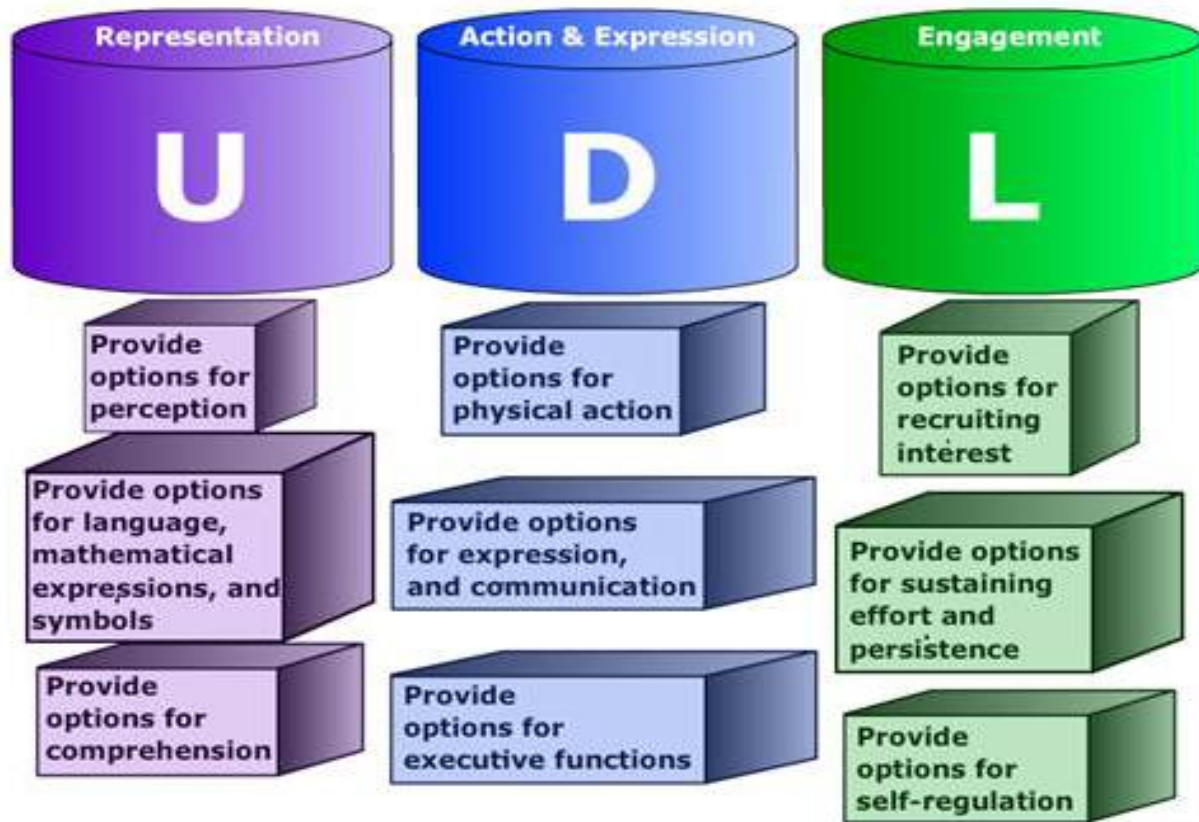




What is UDL?

The term **Universal Design for Learning** means a scientifically valid framework for guiding instruction that:

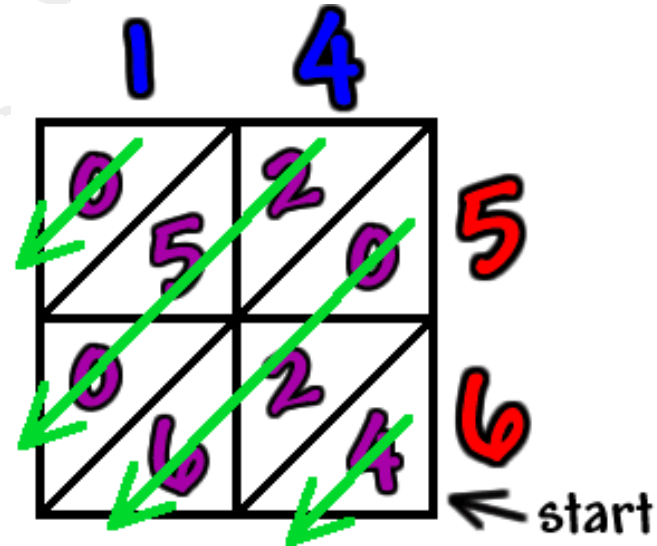
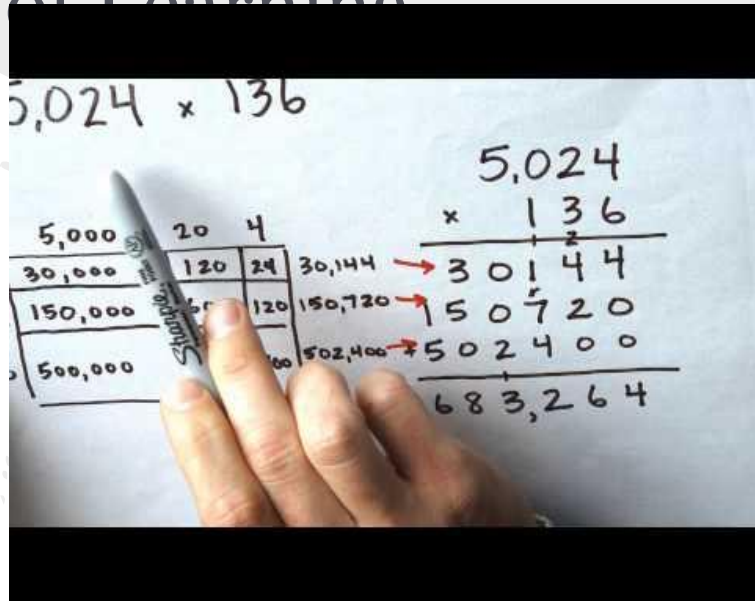
- (a) provides flexibility in the ways information is presented, in the ways students respond or demonstrate knowledge and skills, and in the ways students are engaged; and
- (b) reduces barriers in instruction, provides appropriate accommodations, supports, and challenges, and maintains high achievement expectations for all students, including students with disabilities and students who are limited English proficient



UDL is Multiple Means of:

Representation
of Learning

WHAT?



UDL is Multiple Means of:

Action & Expression

HOW?
of Learning



"I expect you all to be independent, innovative, critical thinkers who will do exactly as I say!"

UDL is Multiple Means of:

Engagement

WHY? of Learning

"That was an awesome worksheet,"
said no student ever.



someecards
user card



Why is Low Tech UDL important?

- Universal Design for Learning does not mean technology!

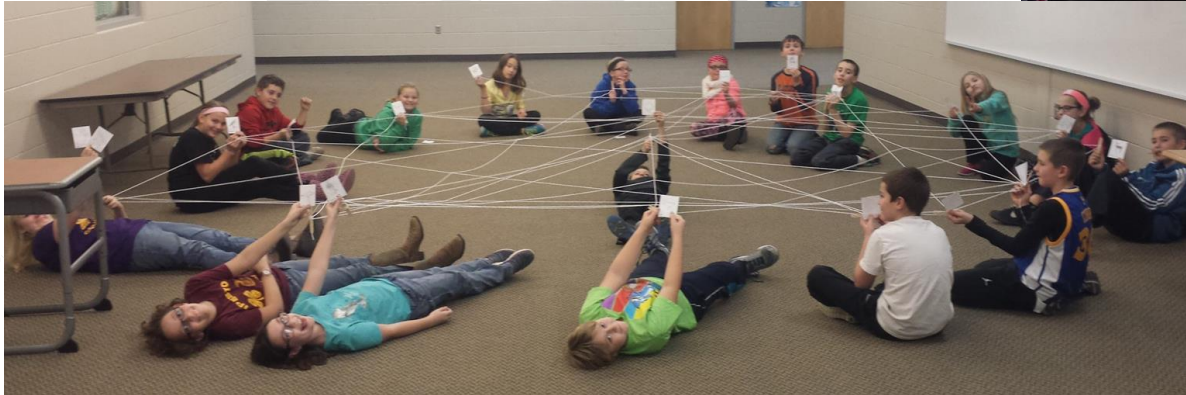


Movement in the Classroom



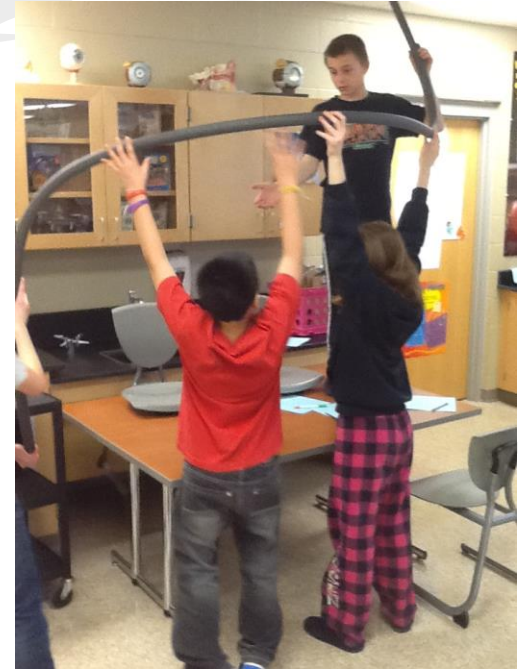
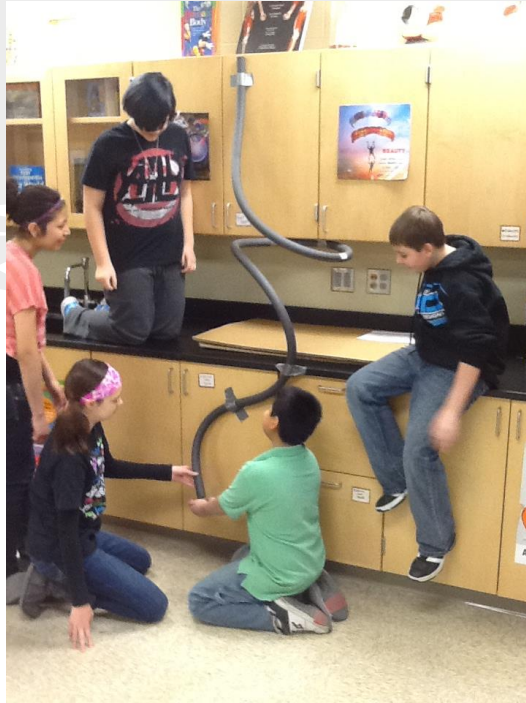
Hands on Activities

- Possible in all Subject Area



Hands-On Activities

Building Roller Coasters in Science

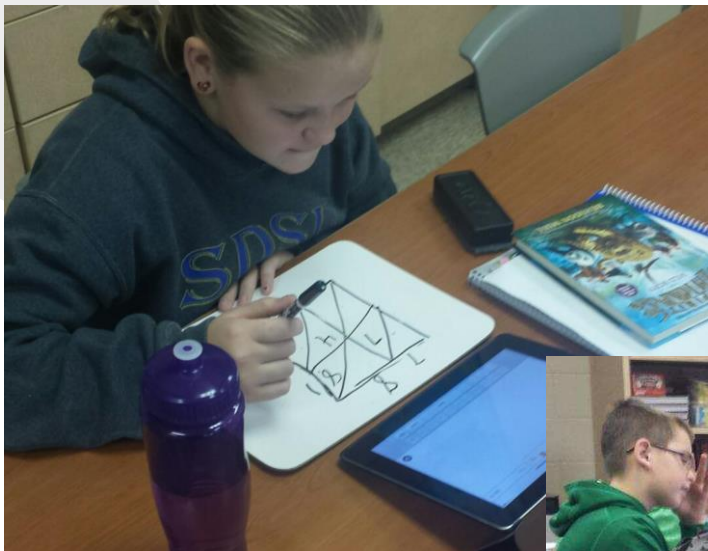


Hands on Activities



Giving Options

- Seating



- Writing



- Books

Guided Notes

Date: _____
Class/Period: _____

Name: _____
Mr. Hoffmann

Types of Verbs notes

I. What is a verb?

- A verb is a word used to express an _____, a _____, or a _____ of _____.
- The three types of verbs are: _____, _____, and _____.

II. Action verbs (from _____, Verbial!)

- An action verb tells what the _____ does.
- Action verbs can be _____ or _____.

Mr. Hoffmann's examples: Angie plays guitar. (physical) Everyone fears a snow day. (mental)

Your examples:

III. Linking verbs (from _____, Verbial!)

- Linking verbs connect _____ to _____ or _____ that define/describe them.
- Mr. Hoffmann's matchmaking Link Verbian friend: _____
- The oddballs:

****To tell if a verb is working as an action verb or linking verb, let _____ do the work!**

IV. Helping verbs

- Helping verbs help main verbs express _____ of _____. They can't stand _____, though! When they team up with an _____ verb, they form a _____.

Mr. Hoffmann's example: But Mrs. Colby, I did finish my geography project!

Your example:

Goal Setting

Morning Check-In

Afternoon

Check-In

What materials do I need in class today?
home?
(pencils, books, assignments, etc.)?

What materials do I need to bring

What is my goal/plan of action for today?
tonight?

What is my goal/plan of action for

Student Signature: _____

Student Signature: _____

Teacher Signature: _____

Teacher Signature: _____

Parent Signature: _____

Mnemonics

Geography -

Big Gorillas Eat Hotdogs Not Cold Pizza

(Belize, Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica, I

H uron
O ntario
M ichigan
E rie
S uperior

Language Arts -

FANBOYS

(for, and nor, but, or, yet, so)

Math-

Please Excuse My Dear Aunt S

(Parenthesis, exponents, multi

(Groupings, exponents, multiplication/division, sub



How to Divide!



÷ (divide)

x (multiply)

- (subtract)

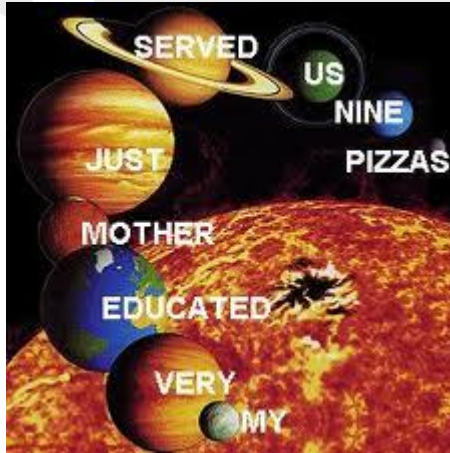
(check)

↓ (bring down)

(repeat or remainder)

Mnemonics

Science:



ROY G. BIV

red, orange, yellow, green, blue, indigo, violet

XKCD54 PRESENTS:

A FEW

SCIENCE MNEMONICS

ORDER OF OPERATIONS

PARENTHESES, EXPONENTS, DIVISION &
MULTIPLICATION, ADDITION & SUBTRACTION

TRADITIONAL: PLEASE EXCUSE MY DEAR AUNT SALLY

TAXONOMY

KINGDOM, PHYLUM, CLASS,
ORDER, FAMILY, GENUS, SPECIES

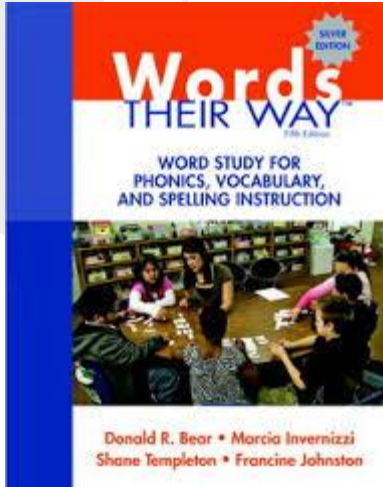
TRADITIONAL: KING PHILIP CAME OVER FOR GOOD SEX

PLANETS

MERCURY VENUS EARTH MARS
JUPITER SATURN URANUS NEPTUNE

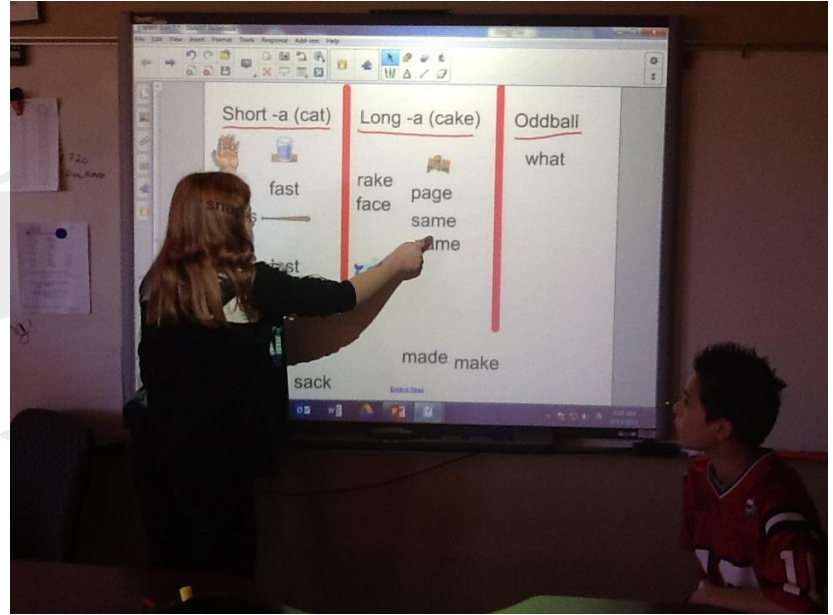
TRADITIONAL: MY VERY EXCELLENT MOTHER
JUST SERVED US NACHOS

Words Their Way (WTW)



- developmental spelling, phonics and vocabulary program K-12
- core or supplemental curriculum
- The purpose of word study (which involves examining, manipulating, comparing, and categorizing words) is to show logic and consistencies within written language

Word Sort



More Low Tech Ideas....

- Closed-Captioning on movies/videos
- Fidgets
- Reading Guides
- Highlighted Textbooks
- Large Print
- Graphic Organizers

YouTube Channel



<https://www.youtube.com/user/pasmrswajer>

Reading Eggs



Reading
eggs

Where children learn to read!

The image features the 'Reading Eggs' logo with the word 'eggs' in colorful, rounded letters. To the right is a cartoon egg character wearing a yellow hat, a purple shirt, and blue pants, carrying a brown bag. Below the logo and character is a row of seven colorful Easter eggs on a green grassy field. The background is a light blue sky with white clouds.



How ABC Reading Eggs and Reading Eggspress can work for your child!

3-4 Years
First Steps
The playroom is perfect for getting 3 and 4 year olds started.

5 Years
Ready for School
Your child can build on the reading skills they have been introduced to at school.

6-7 Years
Fun Practice Makes Perfect
Your child can take a simple placement test that will ensure they start at a suitable level.

7-13 Years
Continue the Reading Journey
Packed full of hundreds of great online activities & games, ABC Reading Eggspress is a great way for your child to continue developing their reading skills.

The advertisement features a blue background with a yellow bee on the left and a blue bird on the right. In the center is a colorful, multi-level play structure with slides and a tower. The text is arranged in a grid-like format with colored boxes for each age group. The 'ABC Reading Eggs' logo is in the top left, and the 'Reading Eggspress' logo is in the top right.



IXL

Highlights of IXL

- **Comprehensive coverage** of K-12 math and language arts curricula.
- **Alignment to the Common Core, DoDEA, and all state standards.**
- **Insightful reporting** that tracks student progress.
- **Professional development** for site license schools.
- **Wide variety of question types**, from word problems to interactive graphing.
- **Unlimited access** to all grade levels.
- **Virtual prizes** and awards to celebrate learning milestones.

Read and Write Gold

Drag your favorite items into the toolbar...

 Space	 Flexible Space	 Play	 Stop	 Rewind	 Pause	 Forward	 Screen Masking
 Dictionary	 Picture Dictionary	 Daisy Reader	 Spell Check	 Preferences	 Sounds Like	 Prediction	 Verb Checker
 Highlight Green	 Highlight Pink	 Highlight Yellow	 Highlight Blue	 Clear Highlights	 Screenshot Reader	 Collect Highlights	 Vocabulary
 Speech Maker	 Scan	 Fact Mapper	 Translator	 PDF Aloud	 Fact Finder	 Fact Folder	 Calculator

... or drag the default set into the toolbar.

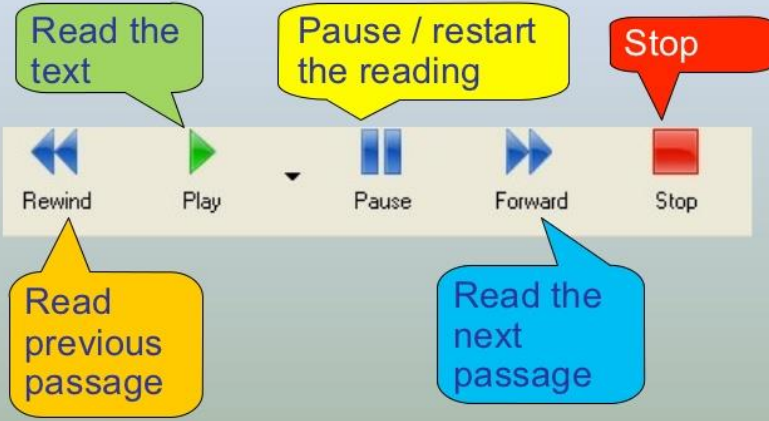
													
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Show Use small size Done

Reading Text

AIM
DE | GA | IA | LA | ME | MA | MI | MN | MO | NY | PA | UT | VT | WI

Reading text



Read the text

Pause / restart the reading

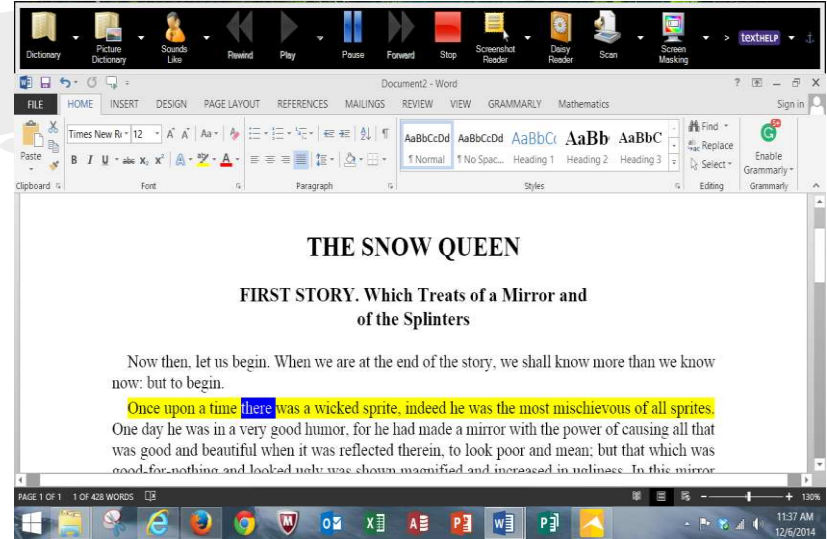
Stop

Rewind Play Pause Forward Stop

Read previous passage

Read the next passage

www.cast.org



Document2 - Word

FILE HOME INSERT DESIGN PAGE LAYOUT REFERENCES MAILINGS REVIEW VIEW GRAMMARLY Mathematics

Times New Roman 12

1 Normal 1 No Spac... Heading 1 Heading 2 Heading 3

THE SNOW QUEEN

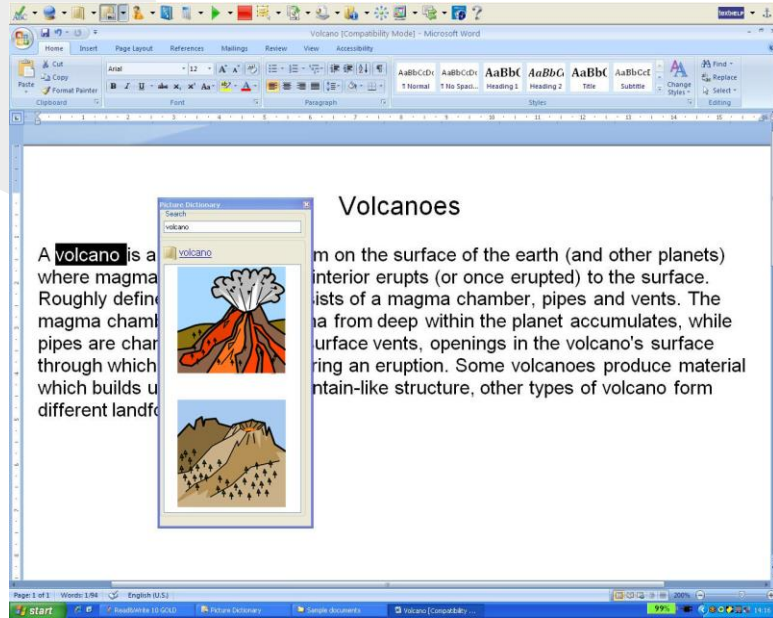
FIRST STORY. Which Treats of a Mirror and of the Splinters

Now then, let us begin. When we are at the end of the story, we shall know more than we know now: but to begin.

Once upon a time there was a wicked sprite, indeed he was the most mischievous of all sprites. One day he was in a very good humor, for he had made a mirror with the power of causing all that was good and beautiful when it was reflected therein, to look poor and mean; but that which was good for nothing and looked ugly was shown magnified and increased in ugliness. In this mirror

PAGE 1 OF 1 1 OF 428 WORDS 11:37 AM 12/6/2014

Picture Dictionary and Word Predictor



Volcano [Compatibility Mode] - Microsoft Word

Home Insert Page Layout References Mailings Review View Accessibility

Font Paragraph

1 Normal 2 No Sp... Heading 1 Heading 2 Title Subtitle Change Styles Editing

Picture Dictionary

Search

volcano

volcano

A volcano is a mountain on the surface of the earth (and other planets) where magma from the interior erupts (or once erupted) to the surface. Roughly defined, a volcano consists of a magma chamber, pipes and vents. The magma from deep within the planet accumulates, while surface vents, openings in the volcano's surface through which it erupts, forming an eruption. Some volcanoes produce material which builds up a mountain-like structure, other types of volcano form different landforms.

Volcanoes

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Page: 1 of 1 Words: 194 English (US)

start RealTime 10:00 Picture Dictionary Sample documents Volcano [Compatibility... 99% 11:15



Read and Write 6 Gold

What sort of su

sort of su

- F1. such
- F2. success
- F3. support
- F4. sulphur
- F5. subject
- F6. sure
- F7. suggested
- F8. surface
- F9. suggest
- F10. supposed



Prodigy



Student Progress By Topic And Strand

Target Student: Data Organization
By Strand View Report

Progress By Strand!

Student Report for MatthewB

Number Sense and Numeration

Skill	Time Spent	# Questions	% Correct
Grade 1			
Counting forward by 1s to 100	55 Seconds	4	75.00
Counting forward by 2s to 100	26 Seconds	2	0
Counting with images	10 Seconds	1	100.00
Ordering Numbers 0-50 (least-greatest)	51 Seconds	2	0
Writing words in numbers to 10	5 Minutes	22	45.45
Writing numbers in words to 10	34 Seconds	17	94.12

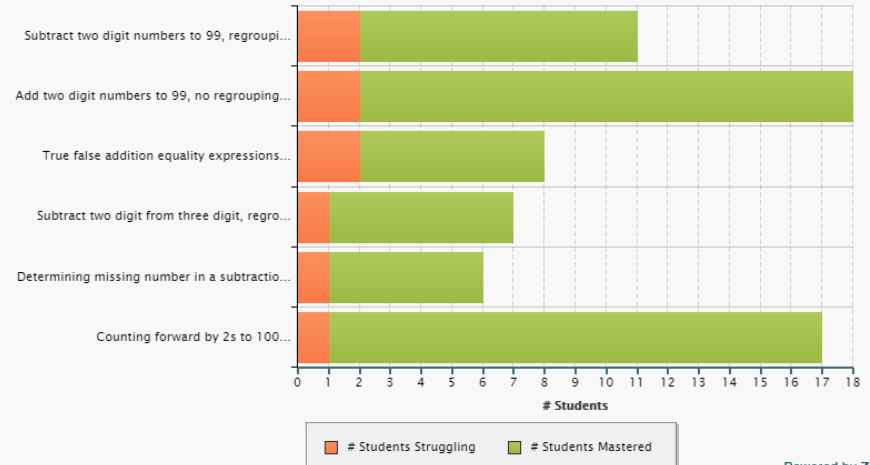
Measurement

Skill	Time Spent	# Questions	% Correct
Grade 1			
Compare objects with measurable attributes (longer or shorter; bigger or smaller)	21 Seconds	4	100.00

Student Reports

Get the data about your students' progress that really matters.

Usage Impact	Student Progress	Curriculum	Trouble Spots
Class Trouble Spots By Skill			





Prodigy





Prodigy

FPS: 58.9
Mouse X:1058 Y:440

At the beginning of the school year there were 561 pencils in your classroom. 324 of these pencils were lost and 285 more were bought. How many pencils are there now?

522

$$\begin{array}{r} 561 \\ - 324 \\ \hline 237 \\ + 285 \\ \hline 522 \end{array}$$

COUNTERS

COINS

COUNTERS

DRAW

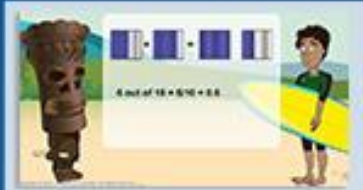
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+ - % = < > : / . DEL

GO!



Study Island



Animations



Virtual Labs



Educational Videos





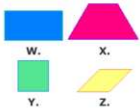
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app126.studyisland.com

Question Number: 1 Session Score: (0/0) 0.0%
Session Time: 0:16 [Comment on Question](#)
Game Score: 0 [Instructions](#)

2-Dimensional Objects

1. Which of the following shapes is a square?



- A Z
- B Y
- C X
- D W

iPad 4:00 PM 43%
app126.studyisland.com Wednesday, April 1, 2015

Study Island

Question Number: 1 of 10 Session Score: (0/0) 0.0%
Session Time: 0:05 [Comment on Question](#)

Antonyms, Synonyms, and Homonyms

1. Directions: Select the correct text in the story.

Which word in the passage is an antonym for the word **ordinary**?

Randy met his new neighbor, Mr. Raab. Randy learned that Mr. Raab is an **outstanding** person. Mr. Raab is a Holocaust survivor from Poland. In 1945, he came to the United States. Soon after, he joined the U.S. Navy. In 2005, he survived Hurricane Katrina in New Orleans where he waited for several **exhausting** days in his **horrifying** apartment to be rescued. Randy knew that he would enjoy getting to know Mr. Raab and hearing his **humbling** stories.

END STUDY SESSION



Study Island

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Glogster: C... Moondanc... Assignmen... baby receiv... Dana Ariss... WordPress... Storify - Ma... Leading Ac... Practice... Scribd - Re...

Pipestone Area Schools
Wednesday, April 1, 2015

Study Island

Question Number: (1/1) 100.0%
Session Time: 0:00
Percent on Question

Explanation

The article says, "Most cars weigh between 3,000 and 4,000 pounds and can go over 100 miles per hour. If someone loses control of something weighing that much and going that fast, it can cause a lot of damage and put people's lives in danger." It describes the weight and possible speed of cars to show how dangerous they can be. The author includes the detail about speed to show that driving can be dangerous.

certainly can be fun, but driving a car is also a serious responsibility.

Most cars weigh between 3,000 and 4,000 pounds and can go over 100 miles per hour. If someone loses control of something weighing that much and going that fast, it can cause a lot of damage and put people's lives in danger. Driving requires a great deal of training and knowledge.

At the age of sixteen, many young people enter driver's education classes. Some of these young people already know much about driving. Some know almost nothing. All of them, however, will find these classes useful. The classes cover a great deal. They are more than just driving lessons. Students learn the rules and laws of driving on public roads. They learn how to operate different types of automobiles and how to properly maintain a vehicle.

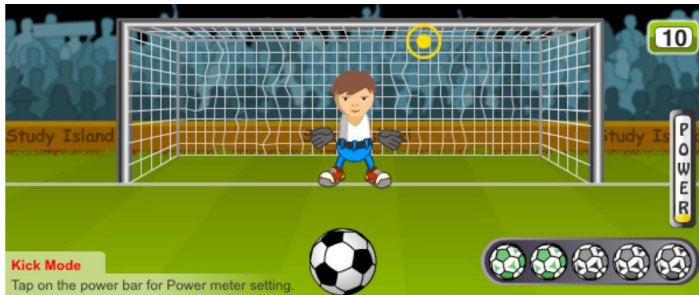
Being able to drive is fun, but everyone must remember to receive the proper training before giving driving a try. Lots of practice and training make driving most cars, especially newer cars, safe and easy.

1. The author included the detail that most cars "can go over 100 miles per hour" to show that



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END STUDY SESSION

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END STUDY SESSION

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- Fiction and informational books at all instructional levels

