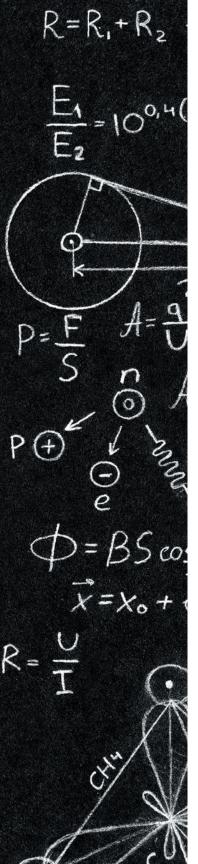




Pages	Activity
4-36	Introduction to Statistics
37-39	Vocabulary board
40-46	Vocabulary cards
47-60	Vocabulary cards cut and paste
61-66	Statistics circle map
67-71	Sorting examples of descriptive vs inferential statistics
72-84	Finding the mean, mode, and median
85-97	Sudoku puzzles
98-103	Close worksheets
104-114	Assessment
115-116	Terms of Use

This unit contains over 100 pages of material. But, don't worry!! I have included an 8 day lesson plan to help you make the most of everything packed in this unit.



Introduction to Statistics Lesson Plan

Preparation

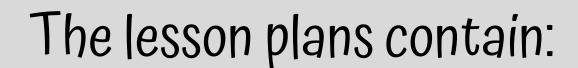
- · Print out a vocabulary board for each student to use throughout unit
 - Laminate or place in page protector
- Book.
 - Print out, laminate, and bind.
 - OR your students can listen to the pre-recorded version
- Vocabulary cards
 - Print out a set of cards onto cardstock and laminate
 - Make one set for each student and also one for the teacher to use in 1 Spy games

Preassessment (do day 1 before starting lesson)

- Choose the form of the assessment that best fits the learning level of your studen
- Give the assessment to assess what your students may already know.
- I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

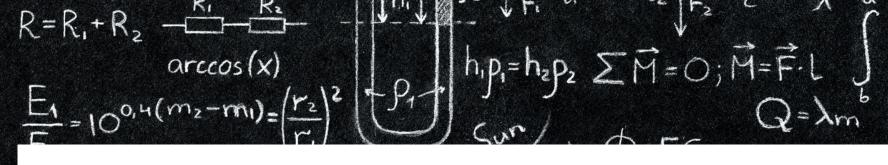
Teaching Tips

- Color Coding: this is a really easy way to add more structure to a matching activity. Outline or color in an empty box or sorting label. Outline or color in the corresponding picture symbols the same colors. Becomes a color matching task.
 - For more info, read more here: https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/
 - b. I also have a blog post on differentiating one activity 3 ways: https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/
- Make you own copies of the activities: Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their work.



m+5

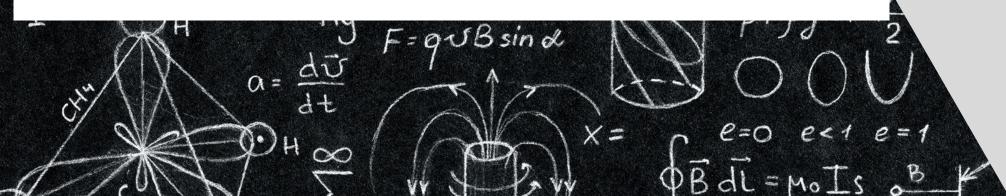
Overall tips for teaching students with significant needs



Day	Activity	Day	Activity
1	Book Vocabulary activity Circle map	5	 Book Vocabulary activity Identify mean, mode, and median
2	Book Vocabulary activity Sorting activity	6	Book Vocabulary cut and past Sudoku puzzle
3	Book Vocabulary activity Identify mean, mode, and median	7	Book Vocabulary cut and pas. Close worksheets
4	 Book Vocabulary activity Identify mean, mode, and median 	8	Review if needed Assessment

The lesson plans contain:

A quick look at what you will do each day



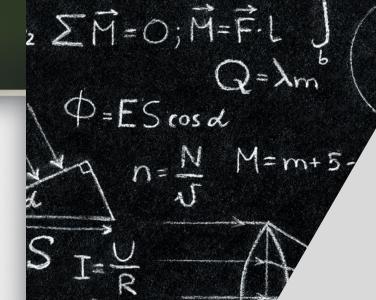
Day 5

Day 5		
Activity	Notes	Materials
Read or listen to a recording	 Read through the story, asking lots of questions 	Book Vocabulary
of the book (10 minutes)	Continue to make connections between book and vocabulary board	board
Vocabulary cards <mark>Bean Bag</mark> Toss (10 minutes)	 Glue the cut apart symbols to the paper plates (one on each plate) Arrange them around the room Students toss the bean bag trying to get it to land on a paper plate Students retrieve the paper plate and share the vocabulary card they retrieved 	Vocabulary cards Vocabulary cards cut ap Small pape plates or of cons' paper Bear
Mean, mode, and median review (5 minutes)	Review the worksheet completed yesterday	works yesterds
Identify mean, mode, and median (10 minutes)	 Students will identify mean, mode and median from a data set and a survey. Do worksheet using a data set and one worksheet using a survey. Each worksheet has a color-coded differentiated version 	Worksheet
Sharing (10 minutes)	 Each student shares their finished worksheets with the group using the communication method of their choice 	 Completed worksheet Communication devices

The lesson plans contain:

Detailed instructions on how that day's lesson should run

Inferential statistics can be helpful when predicting who might win an election or even how an experiment might turn out.



Another helpful measure to know is the mode. The mother number that is the most common. In this case it degrees.

Day	Temperature
1	50
2	50
3	51
4	52
5	55
6	52
7	50
8	50
9	51

This unit contains a book that is 33 pages to introduce the topic.

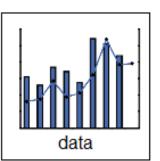
It comes in a pdf version as well as a voice recorded powerpoint (so you don't have to print it out.)

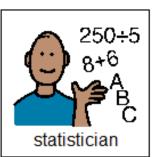
rista Joy, Special Needs for Special Kid

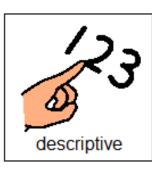
AR Gr = WOT?

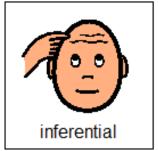
 $R = R_1 + R_2 - \frac{R_1}{2} - \frac{R_2}{2} - \frac{1}{2}$

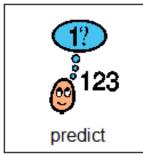


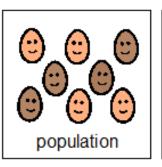


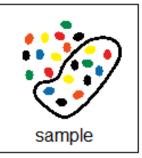


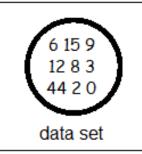


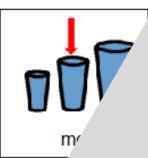


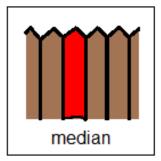




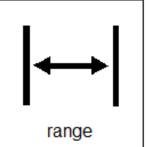


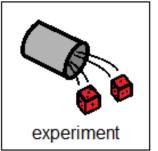




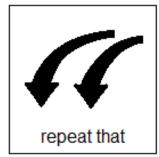


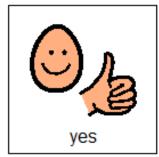


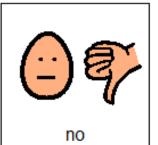
















This unit comes with a vocabulary board.

Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

Tips on how to use in the unit!!

Also in black and white

statistics

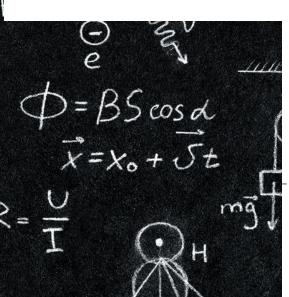
Collecting and analyzing data looking for common characteristics.



descriptive statistics

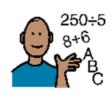
Use data without making any predictions; daily temperature is an example.





statistician

Person who collects, studies, and uses data to make decisions.



inferential statistics

Use data to make a prediction; who will win an election is an example.



population

Group of people of things you want to collect data from.

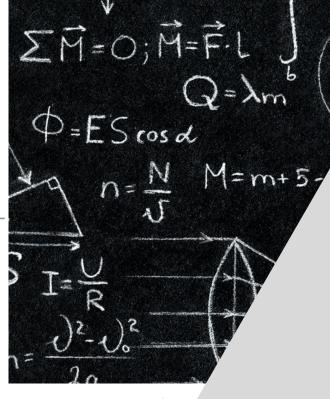


data set

Actual data collected and used.



Also in black and white



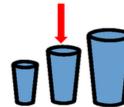
sample

Smaller part of the whole popthat is representative of the entire



mean

Average. Sum of all the numbers divided by the total number of values.



This unit comes with 12 vocabulary cards.

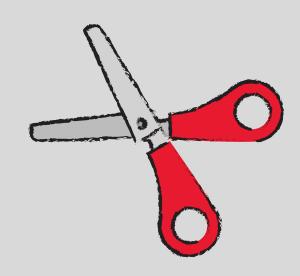
Every day students will do a group activity using these cards to get more familiar with words that are likely new to them.



Use data without ma.

daily temperature

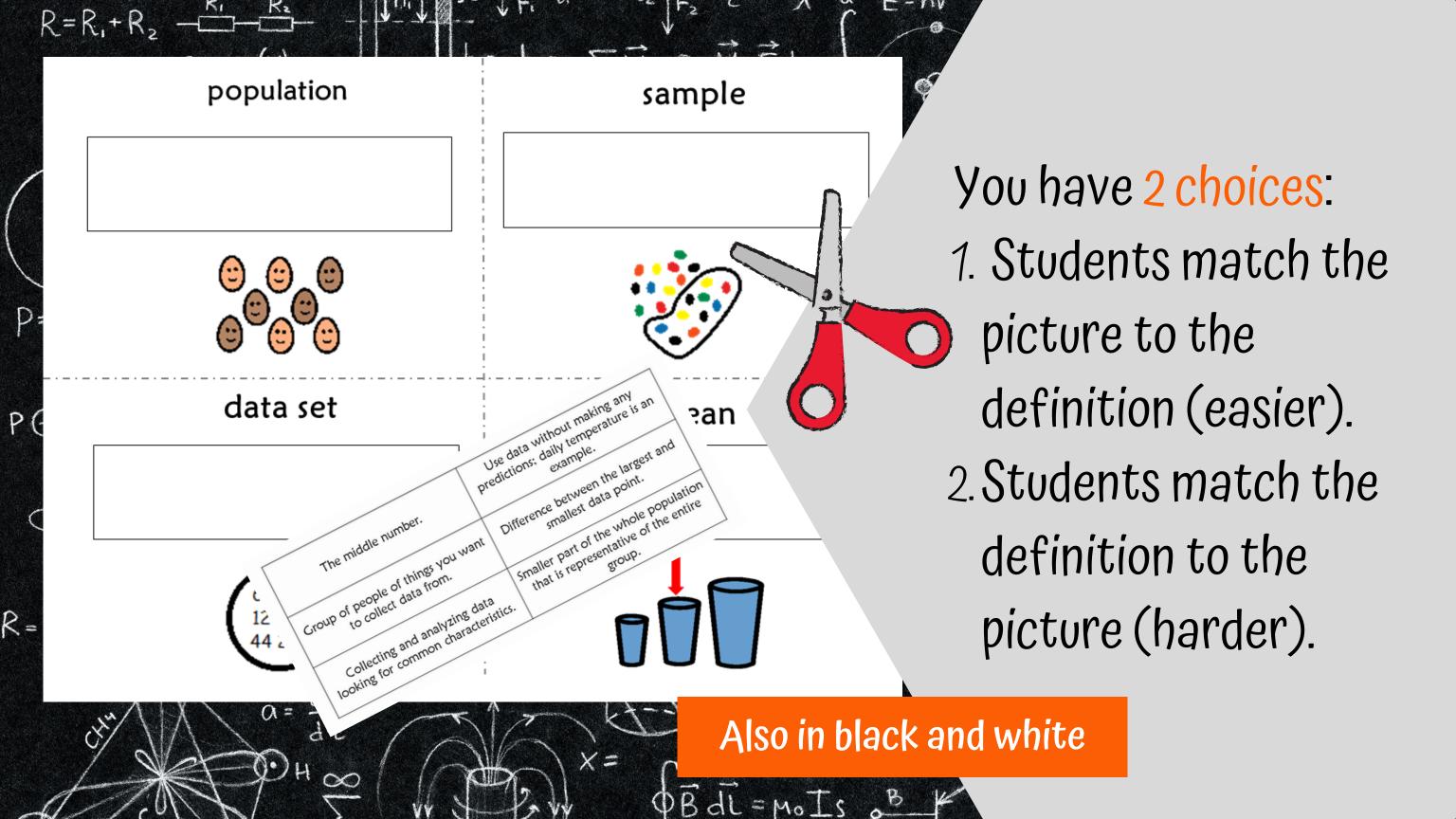
Students will also test their knowledge of these new words and symbols with a cut and paste activity on days 6&7.

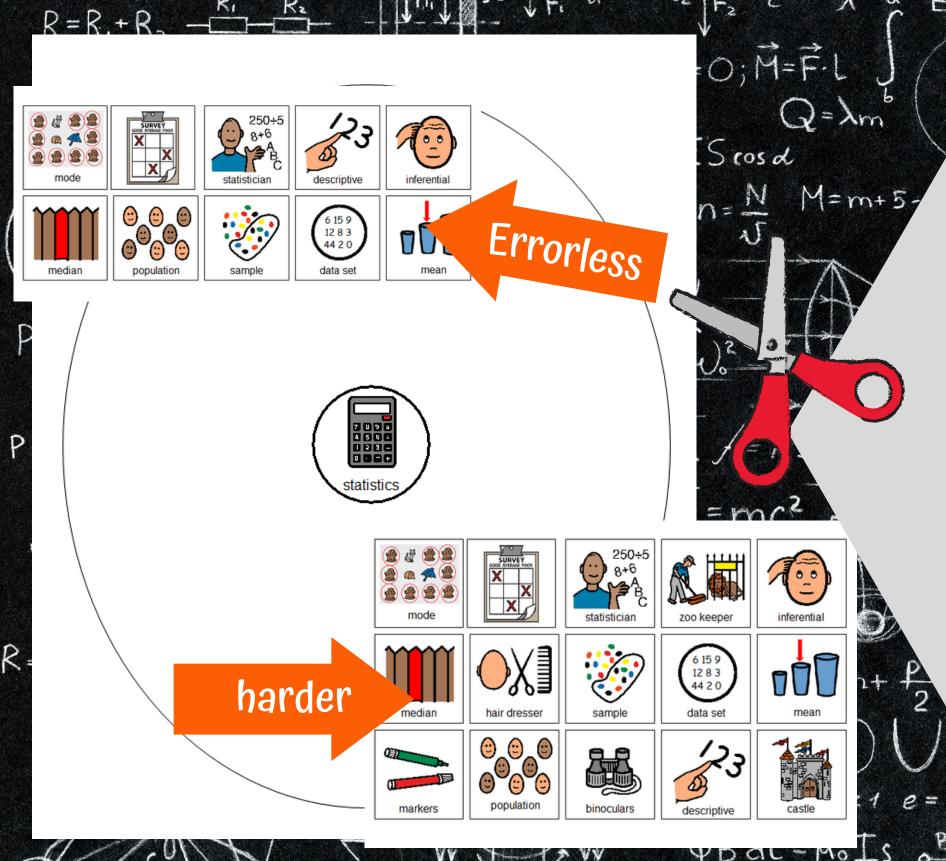


Also in black and white

prediction; w

is an example





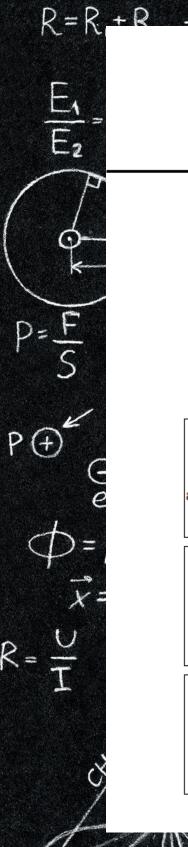
Circle map

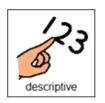
This circle map is a great way for students to see a the concept at a glance.

• One is errorless

There are 2 versions:

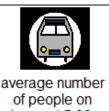
 One has wrong answers mixed in students will have to set aside

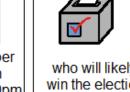




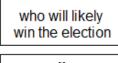














does the number of hours you study affect



favorite ice cream flavor in the class

which popsicle

flavor will likely

run out first



likely to occur

of rainfall in

one day



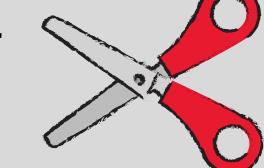
who will likely win the race

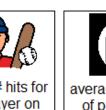


now long before your car likely breaks down

In this activity, students sort examples of descriptive and inferential statistics.

Directions on how to differentiate with color is included.



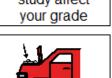


subwav at 5:00pm



average temperature

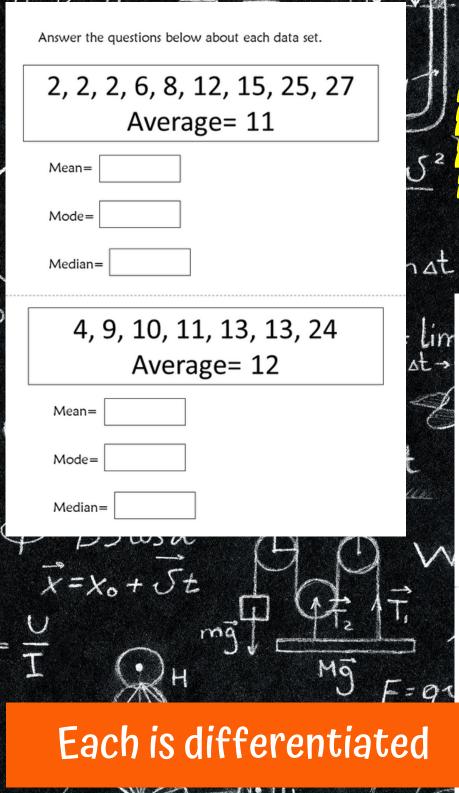






 $Q = \lambda_m$

M=m+5-



h,p,=h,p, 5 M=0·M=€. 3 using data sets J Answer the questions below about each data set. 1, 1, 3, 3, 4, 5, 5, 5, 9 Average= 4 Mean= Mode= 1,2,3,5,5 Average= 3.2 Mean= Mode= Median=

There are some worksheets that INTRODUCE the idea of mean, mode and median. I have a more advanced unit that looks at calculating these.

Answer the questions below about each survey.

Person	# hotdogs eaten
Sally	1
Bill	2
Joey	3
Brian	7
Gary	7

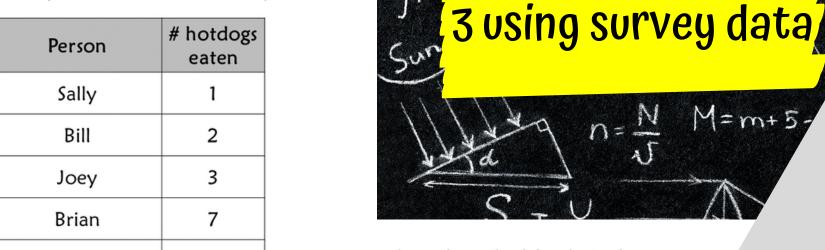
Average=

Each is differentiated

Mean=

Mode=

Median=



Answer the questions below about each survey.

M=m+5-

Person	# laps run
Hal	2
Robbie	4
Barb	6
Glen	8
Bob	14
Beth	14
Dave	15

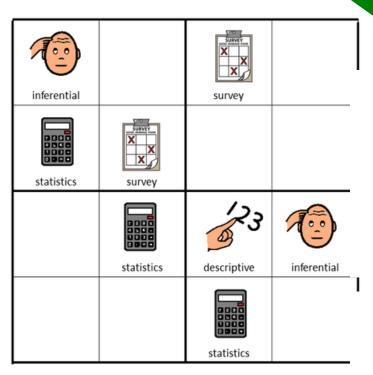
Median=

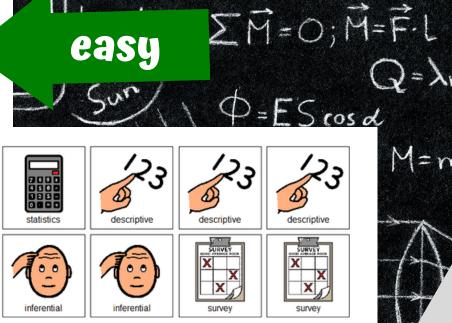
Average=

This will assess students understanding of what each term means without having to manipulate numbers or do any

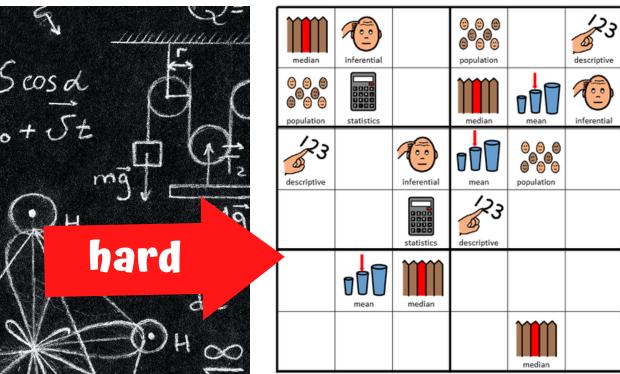
calculations.

Statistics



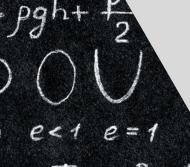


Statistics

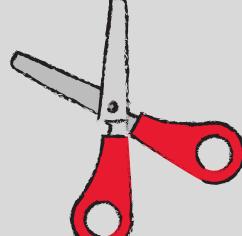


There is a Sudoku puzzle in this unit as well. This is a great way to work with the new vocabulary!!

There are 2 versions plus answer keys.



M=m+5.

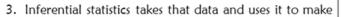


Statistics

1. A person who gathers information and studies trends is a



statistics gathers and presents existing data.





4. The is who or what you are gathering data from.

5. Most often, statisticians just look at a entire population.



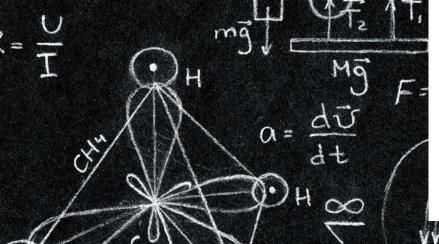


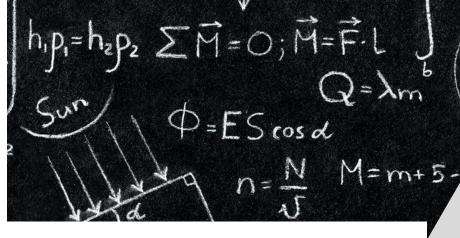






rather than the





Statistics

is the average of a set of numbers or results. The

The median is the number of the data set.

The is the most common number in the data set.

Data can come from a questions.



10. Statisticians can also do their own



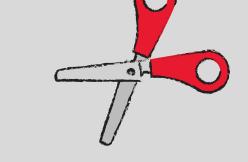
to collect data.











Close worksheet are a great informal assessment. This unit has 2 of them, for a total of 10 fill-in-the-blank questions.

Answer key included.

Am

m+5

1. This is the collection, summarization, and use of data:







2. Which if the following is an example of descriptive statistics?







3. Which if the following is an example of inferential statistics?







4. Inferential statistics is used to make:







5. The part of the population that the data actually comes from is called the:







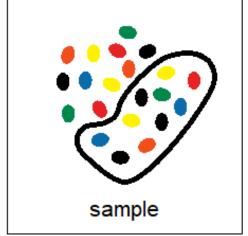
FINALLY the assessment!! There are 3 versions. This version has 10 questions with 3 picture choices for each

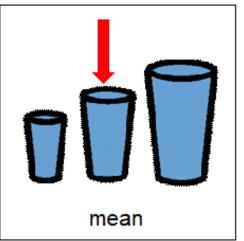
Answer key included.

question.

PE

Q 7



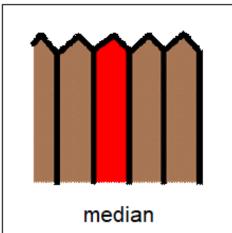


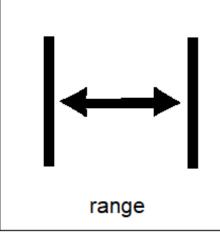


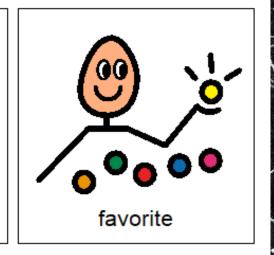
im

m+5

Q 8

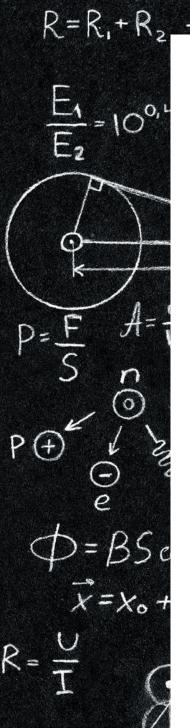




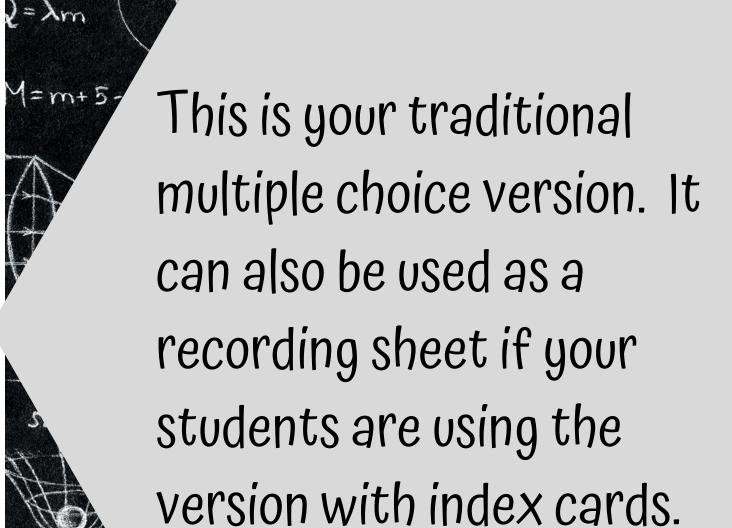


With this version, you cut out the answer choices and glue them on index cards. Ask the student the question, and they point to the correct answer.

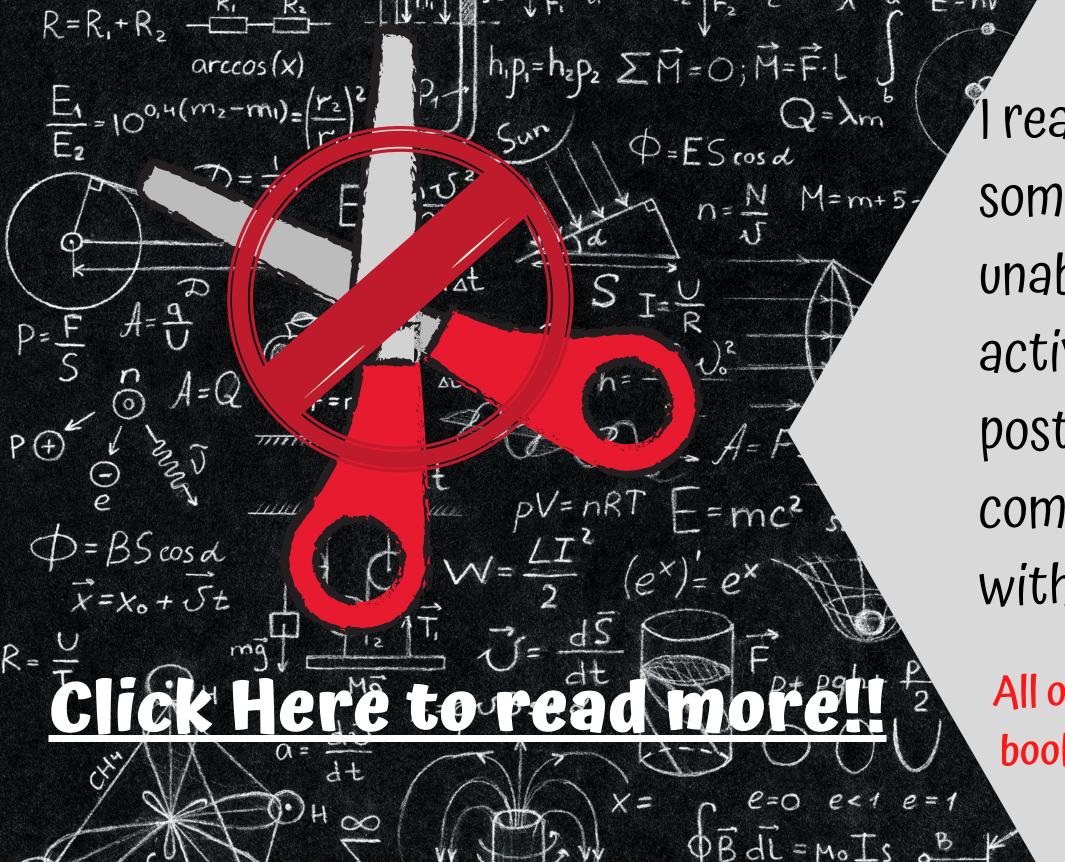
OB dl = Mo Is



- 1. This is the collection, summarization, and use of data:
 - A. Multiplication
 - B. Division
 - C. statistics
- 2. Which if the following is an example of descriptive statistics?
 - A. Batting average
 - B. What weather will be like tomorrow
 - C. Most likely flavor of ice cream
- 3. Which if the following is an example of inferential statistics?
 - A. Average temperature
 - B. Who will likely will the election
 - C. Average number of pets
- 4. Inferential statistics is used to make:
 - A. Experiments
 - B. Data sets
 - C. predictions
- 5. The part of the population that the data actually comes from is called the:
 - A. Outlier
 - B. Sample
 - C. Friendly
- 6. All the information collected is called the:
 - A. Data set
 - B. Mean
 - C. population







I realize there will be some students out there unable to do cutting activities. I have a blog post with ways to complete activities without a pair of scissors!!

All of the activities (except the book) comes in color and black and white.