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This unit contains over 150 pages of material. But, don't worry!! I have included a 15 day lesson plan to help you make the most of everything packed in this unit.

Scatter Plots 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
 - o 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 I Spy games

Preassessment (do day 1 before starting lesson)

- Choose the form of the assessment that best fits the learning level of your students
- 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.
 - a. 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/
- 2. 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.
 - b. 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.

The lesson plans contain:

Overall tips for teaching students with significant needs

Quick Look

LOOK		 	
Day	Activity	Day	Activity
1	BookVocabulary activityIdentify linear and non-linear examples	8	BookVocabulary activityOrdering correlation by strength examples
2	 Book Vocabulary activity Identify linear and non-linear examples 	9	BookVocabulary activityLabeling scatter plots
3	 Book Vocabulary activity Identify +, - and no correlation examples 	10	BookVocabulary activityLabeling scatter plots
4	 Book Vocabulary activity Identify +, - and no correlation examples 	11	BookVocabulary activityReal-life examples
5	 Book Vocabulary activity Identify strong and weak correlation examples 	12	BookVocabulary cut and pasteReal-life examples
6	BookVocabulary activityIdentify strong and weak correlation examples	13	BookVocabulary cut and pasteSudoku puzzles
7	 Book Vocabulary activity Ordering correlation by strength examples 	14	BookVocabulary activityClose worksheets
		15	Review if needed (plenty of extra worksheets)Assessment

The lesson plans contain:

A quick look at what you will do each day

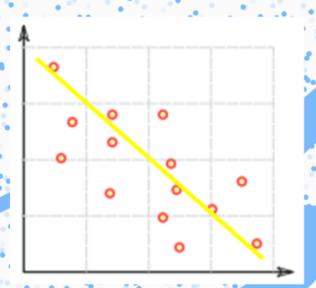
Day 3

Activity	Activity Notes			
Read or listen to a recording of the book (10 minutes)	 Read through the story, asking lots of questions Continue to make connections between book and vocabulary board 	BookVocabularyboard		
Vocabulary cards <mark>I Spy</mark> <mark>Game</mark> (10 minutes)	 To play this game see description on day 2 Today, try to give clues about the card your student needs to find Read definition Show real photo that relates to card from book (if applicable) Describe the picture Discuss relevant points on the card You can also play this game in this manner having them find the symbol on their vocabulary board 	 Vocabulary cards (student set and teacher set) Vocabulary board 		
ld linear and non-linear worksheet review (5 minutes)	n-linear orksheet view			
Id examples of +, -, and no correlation (10 minutes)	 Do 1-2 of the worksheets where students identify examples of scatter plots that have positive, negative, and no correlation Differentiated version included. 	Worksheet		
Sharing (10 minutes)	Completed worksheetsCommunication devices			

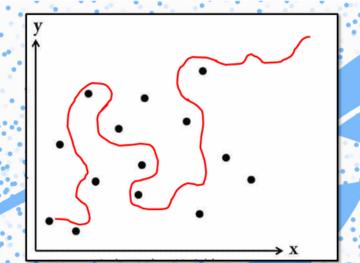
The lesson plans contain:

Detailed instructions on how that day's lesson should run

This scatter plot shows there is a weak, negative linear correlation. The line goes down left to right, but the dots are not really that close to the line.

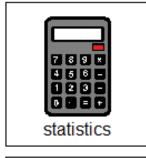


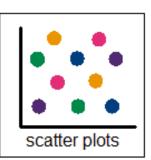
And, if there is no line that can be drawn, then we say there is no correlation. Next, let's look at the shape.

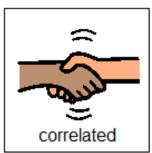


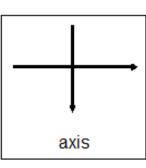
This unit contains a book that is 35 pages to introduce the topic.

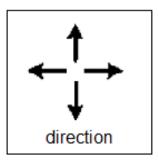
It comes in a pdf version as well as a voice recorded powerpoint (so you don't have to print it out.)



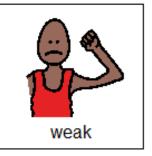


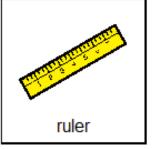


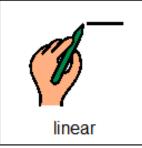


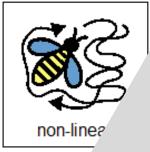


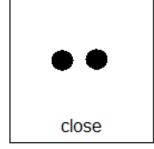


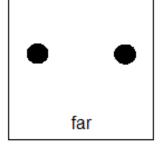


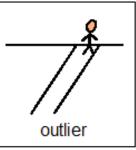


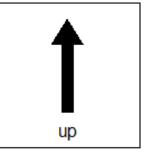


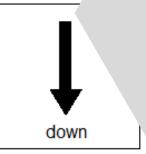


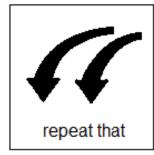




















This unit comes with a vocabulary board.

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

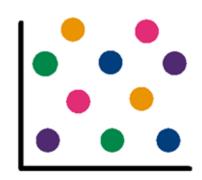
Tips on how to use in the

Christa Joy, Special Ne The Picture Communication Symbols © 1981– Worldwide. Used with permission. Boards

Also in black and white

scatter plots

Graph that uses dots to display data from 2 different variables.



variable

Something that can be measured.





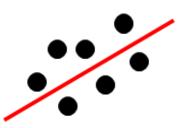
correlation

Relationship between 2 variables. Can be positive or negative.



trend line

the general position of mos dots.



This unit comes with 14 vocabulary cards.

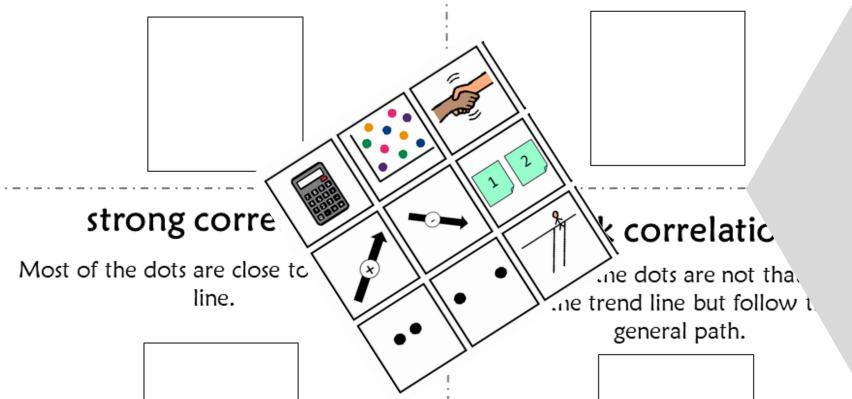
Every day students will do a group activity using these cards to get more familiar with words that are likely new to them.

linear

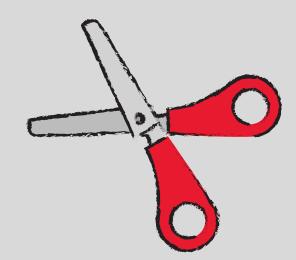
Able to draw a straight line through most of the dots.

non-linear

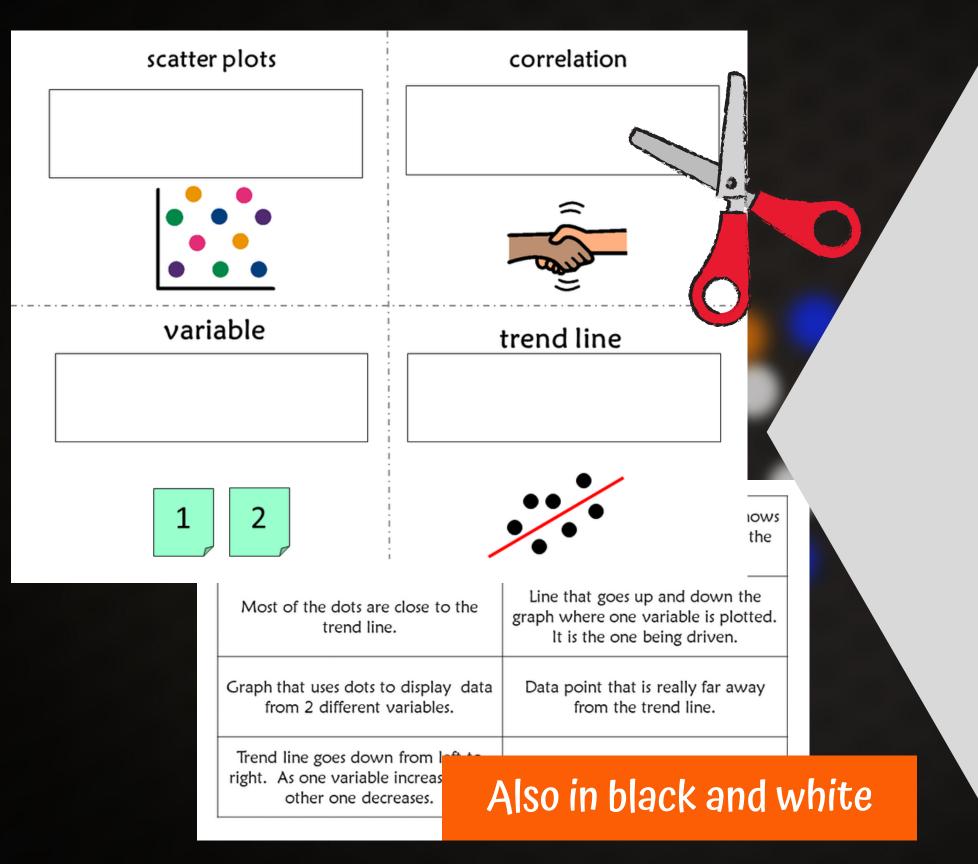
Able to draw a curved line through most of the dots.



Students will also test their knowledge of these new words and symbols with a cut and paste activity on days 12&13.



Also in black and white



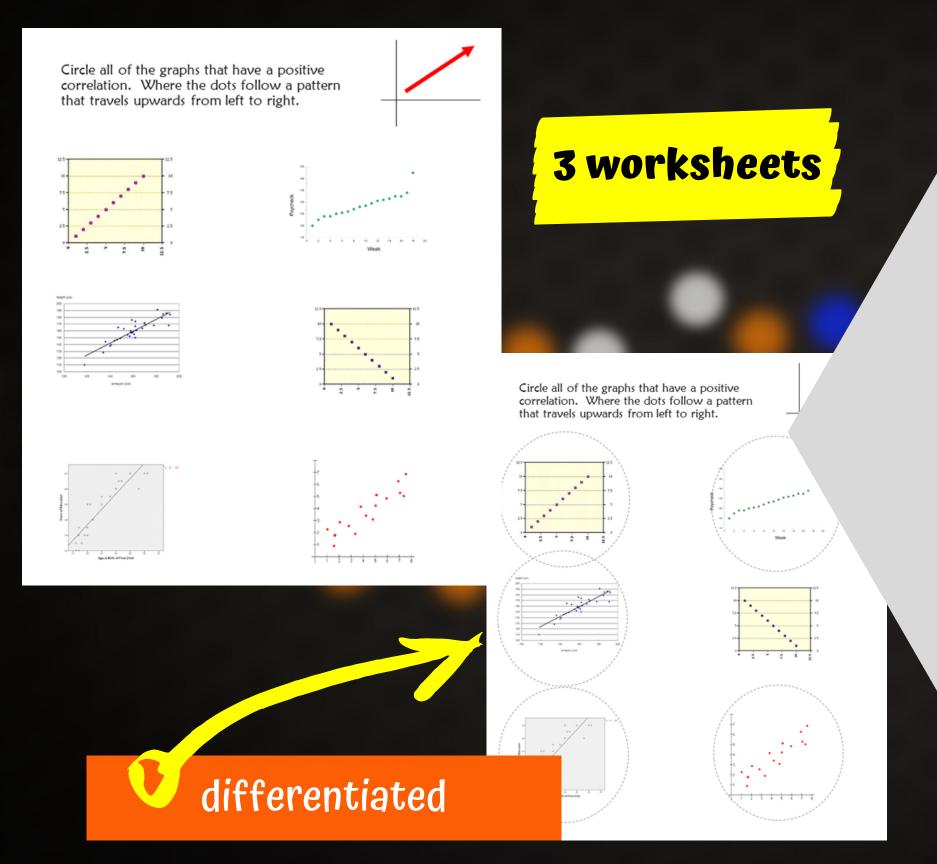
You have 2 choices:

- 1. Students match the picture to the definition (easier).
- 2. Students match the definition to the picture (harder).

Circle all of the graphs that have a linear relationship. Trace the trend line if present. 3 worksheets Circle all of the graphs that have a linear relationship. Trace the trend line if differentiated

This unit contains a lot of worksheets. Almost all of them come in a differentiated version.

This set has students identify those that are and are not linear.

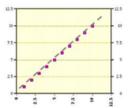


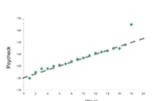
This set has students identify those with positive, negative, or no correlation.

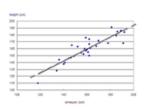
Differentiated versions have circles for students to trace.

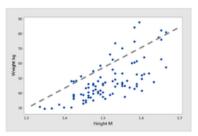
Circle all of the graphs that have a strong correlation. Where the dots are all fairly close to the trend line.



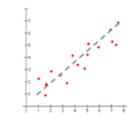






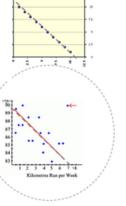






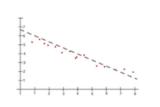


Circle all of the graphs that have a weak correlation. Where the dots are all not as close o the trend line.



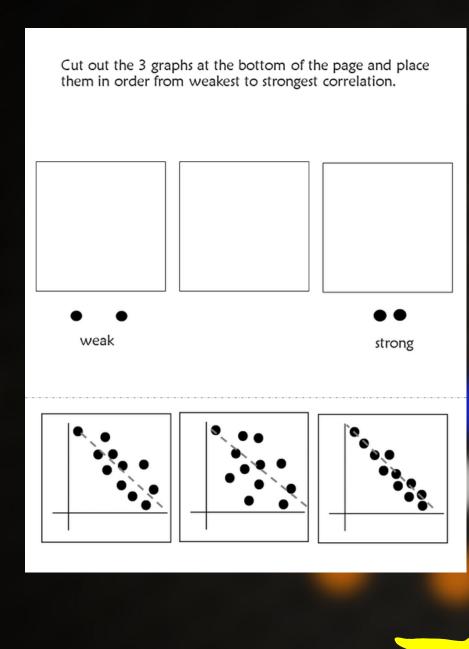






This set has students identify graphs with strong or weak correlations.

Differentiated versions have circles for students to trace.

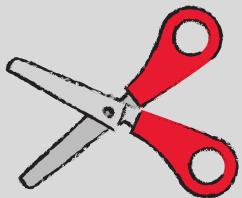


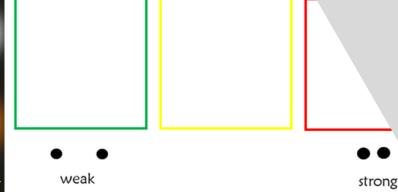
4 worksheets

Cut out the 3 graphs at the bottom of the page them in order from weakest to strongest correl

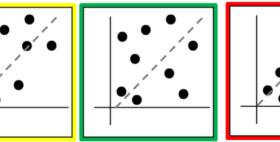
This set have students place the scatter plots in order by strength.

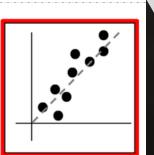
Differentiated versions are color coded.



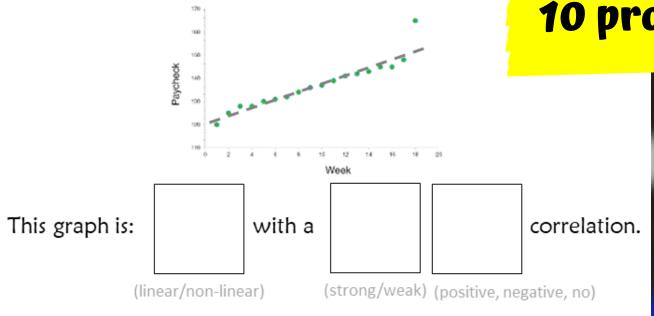








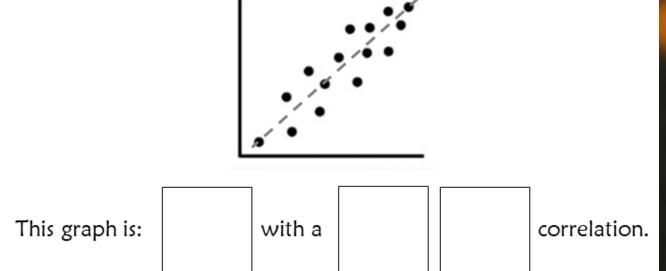
Look at each graph. Find the best words to describe the graph.



10 problems

This set has students labeling the trends in the scatter plot.

There is a page of answers students cut apart and paste in boxes.

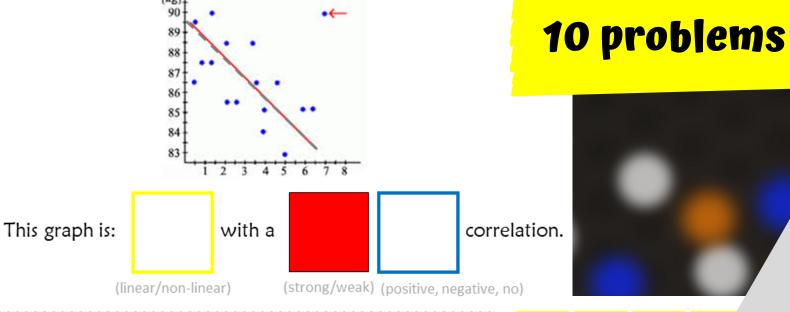


(linear/non-linear)

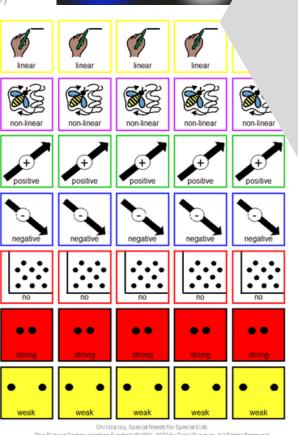
(strong/weak) (positive, negative, no)

Answer key is included.

Look at each graph. Find the best words to describe the graph.



This graph is: with a correction (linear/non-linear) (strong/weak) (positive, negative



differentiated

This set is differentiated with A LOT of color.

I found Jimmy did better with this if I only gave him 3 answers to paste in at a time.

Watching the weather





The weatherman said the chance of rain today was 90%. It is cloudy outside and most people in your neighborhood walk to school. How many kids do you think will be carrying an umbrella?

Circle the 2 variables:







2. Do you think the variables are correlated?







3. As the chance of rain increases what will happen to the number of kids carrying umbrellas?







4. What type or correlation is this?







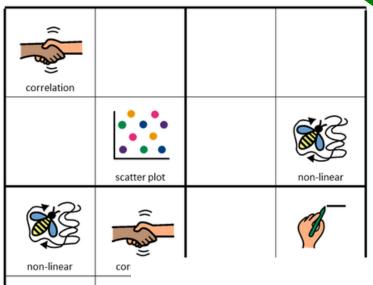
5 problems

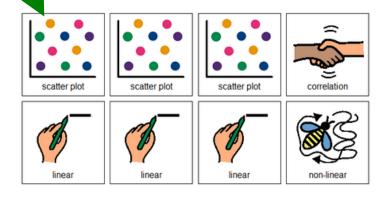
This last worksheet set has students listen to a real-life situation about correlation.

This is the only set not differentiated. Because I was reading the problem, we talked through the answers.



easy





Scatter Plots



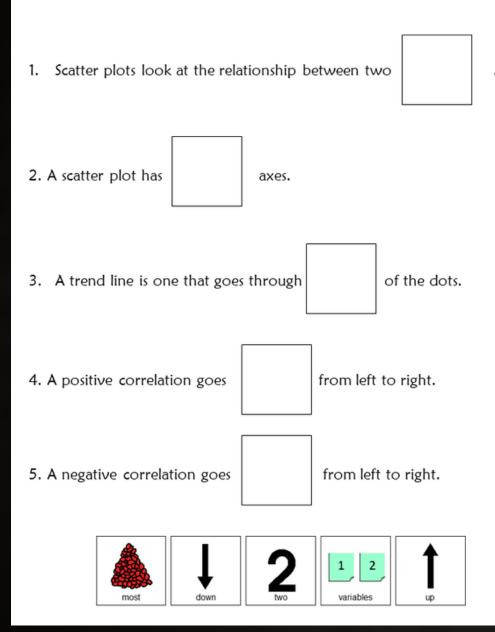
There is a Sudoku puzzle in this unit as well. This is a great way to work with the new vocabulary!!

There are 2 versions plus answer keys.

Also in black and white

hard

Scatter plots



Scatter Plots

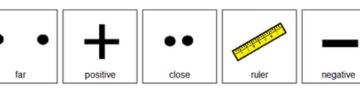
- 5. If you can draw a line through the dots with a linear.
- A strong correlation means the dots are line.
- 3. A weak correlation means the dots

- is an example of a
- is an example of a

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.





1. Scatter plots tell you if there is a relationship between 2:







2. What do scatter plots use to graph the data?







3. This is drawn with a ruler through the dots to see if it is linear?







4. If the dots are close to the trend line, then the correlation is:







5. If the dots are far from the trend line, then the correlation is:





picture cl question.

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

Answer key included.

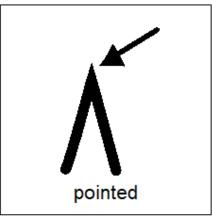
Also in black and white

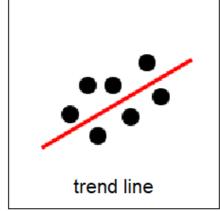
Version 2

Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

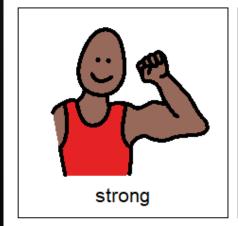
Q 3







Q 4,5







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.

Also in black and white

- 1. Scatter plots tell you if there is a relationship between 2:
 - A. friends
 - B. variables
 - C. hands
- 2. What do scatter plots use to graph the data?
 - A. lines
 - B. bars
 - C. dots
- 3. This is drawn with a ruler through the dots to see if it is linear?
 - A. bumpy
 - B. pointed
 - C. trend line
- 4. If the dots are close to the trend line, then the correlation is:
 - A. strong
 - B. weak
 - C. equal
- 5. If the dots are far from the trend line, then the correlation is:
 - A. strong
 - B. weak
 - C. equal
- 6. When you cannot find a line that goes through most of the dots, it is said to be:
 - A. linear
 - B. non-linear
 - C. bumpy

This is your traditional multiple choice version. It can also be used as a recording sheet if your students are using the version with index cards.



Click Here to read more!!

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!!