- CORIE GEOMETRY **PARALLEL &** PERPENDICULAR LINES

INCLUDES GOOGLE SLIDES





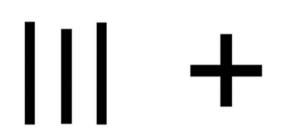
This unit was created with this guy in mind. He has autism and an intellectual disability. He is a nonreader, has a very short attention span, and has a few foundational math skills. With some support, he is able to do this unit and enjoys the challenge. He is my tester!!



Parallel & Perpendicular Lines Unit

Color version

By Christa Joy Special Needs for Special Kids



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Also included in this resource as separate files:

- Lesson plans
- · Links and directions to digital activities
- PowerPoint (this is the book in the lesson plan)
- Voice recorded PowerPoint
- Activities in black and white

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This unit contains 14 days of material that is in both printable and digital formats. I have included a detailed lesson plan to help you make the most of everything in this unit including how to add some group activities.

It comes in 2 separate files. One in color and one in black and white.

Geometry: Parallel & Perpendicular Lines 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 I Spy games

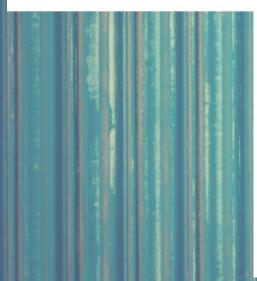
Day 5

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

- 1. Color Coding: this is a really easy way to activity. Outline or color in an empty bo the corresponding picture symbols the san task.
 - a. For more info, read more here: https://specialneedsforspecialkids.o differentiation/
 - b. I also have a blog post on different https://specialneedsforspecialkids.o 3-ways-easily-and-effectively/
- 2. Make you own copies of the activities. Ev yesterday. For that reason:
 - a. I often complete the activity mysel that I could use year after year.
 - b. My copies were also helpful as eith more support or as a way for more work.



Day	Activity	Day	Activity	Day	Activity
1	 Book Vocab cards activity Scavenger hunt Circle map 	6	 Book Vocab cards activity Create/draw perpendicular lines 	11	 Book Vocab cards activity Bisecting lines
2	 Book Vocab cards activity Scavenger hunt Circle map 	7	 Book Vocab cards activity Create/draw perpendicular lines 	12	 Book Vocab cards cut and paste Close worksheet
3	 Book Vocab cards activity 	8	 Book Vocab cards activity nining 	13	 Book Vocab carr cut and r Close

Communication

devices

Activity	Notes	Materials
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 	 Book Vocabulary board
Vocabulary cards <mark>Scavenger</mark> Hunt (10 minutes)	 Place one set of the vocabulary cards around the room before lesson Students walk around and find them, bring them back and matching them to their own set of cards 	 Vocabulary cards (extra sets)
ld lines worksheet review (5 minutes)	Review the worksheet completed yesterday	 Worksheets completed yesterday
Identifying lines on a grid (10 minutes)	 Do one of the worksheets where students have to circle the different types of lines Choose the best version depending on the learning level of your students (see worksheet directions for more details) Add color coding if needed Students complete the worksheet Make connections to the book as necessary 	Worksheet
Sharing (10 minutes)	 Each student shares their finished worksheet with the group using the communication 	 Completed worksheets

method of their choice

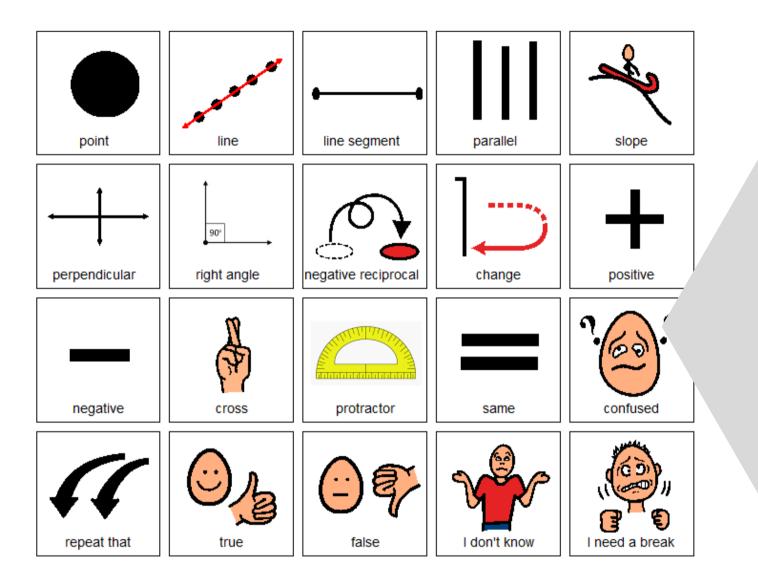
		work
cards iining	14	• Asr • V
cards paste g lines		

The lesson plans contain:

- Overall tips for teaching students with significant needs
- A quick look at what you will do each day
- Detailed instructions on how that day's lesson should run

Ouick Look

in group discussions.



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This unit comes with a vocabulary board.

- Vocabulary boards are great for ALL students to assist with
- participation and engagement

Tips on how to use in the unit!!

Parallel lines are lines that have no points in common and they will never cross or touch each other as they travel in both directions.



Christa Joy, SNSK

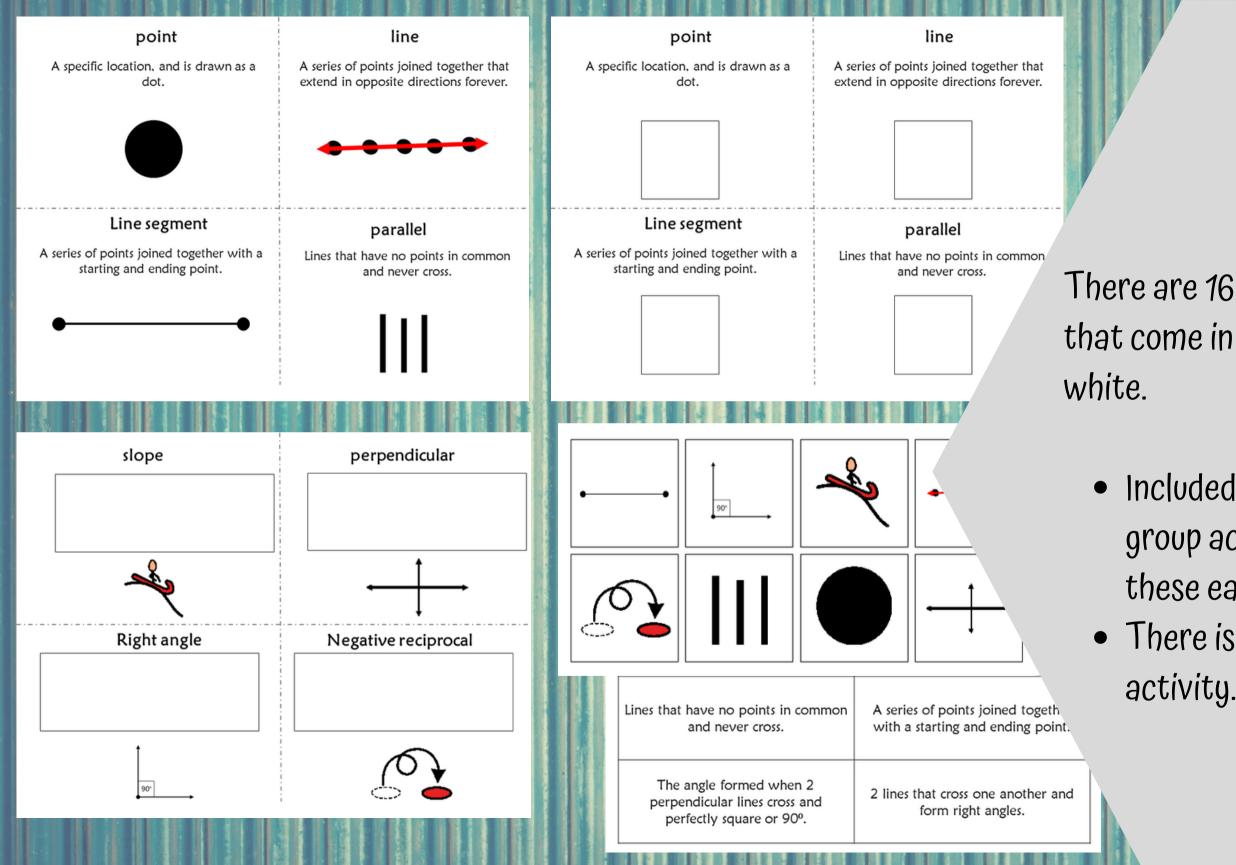
Christa Joy, SNSK

Perpendicular lines on the other hand, DO cross one another. In fact, they cross each other at a right angle.

that students will use to complete the activities.

- pdf version
- voice-recorded PPT
- mp4 movie format

There is a 29-page book about parallel and perpendicular lines



There are 16 vocabulary cards that come in color and black and

Included are suggestions for

- group activities to do with these each day.
- There is also a cut-and-paste activity.

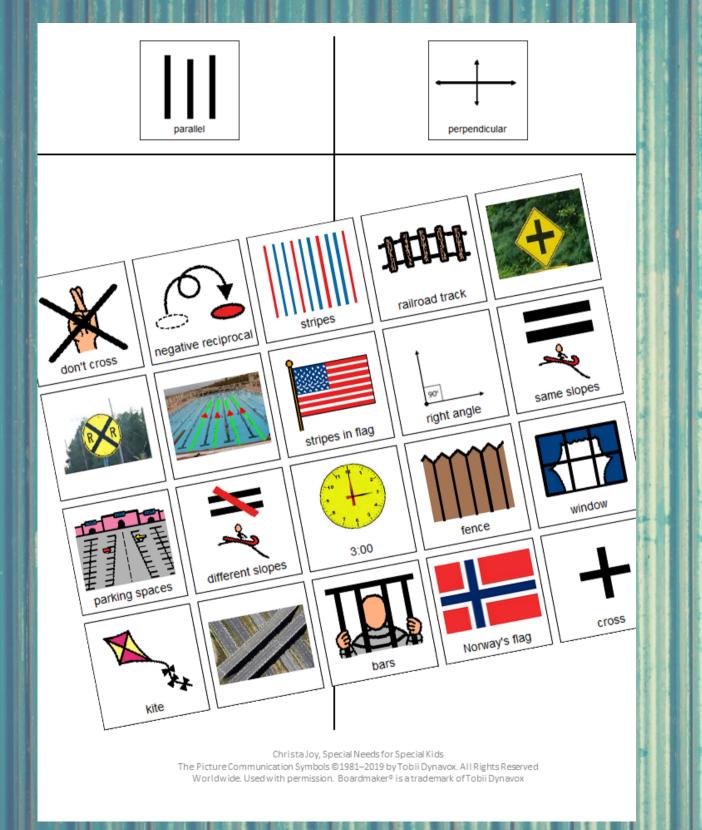
Errorless version Cut apart pictures and place in circle map about parallel lines. same slope railroad track line never cross blinds lines on field lines in street Cut apart pictures and place in circle map ONLY IF they relate to parallel lines. g g g g never cross curly railroad track blinds The Picture Communicati Worldwide, Usedwith crooked lines on field lines in street plus sign piano same slope

There are 2 circle maps, one on parallel lines and one on perpendicular lines that review facts from the book.

Circle maps are a great way for students to see the concept at a glance. There are 2 versions:

- One is errorless

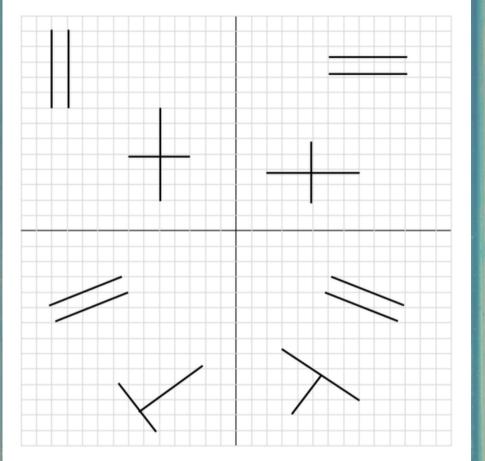
• One has wrong answers mixed in students will have to set aside.



perpendicular lines. Suggestions for differentiation are included.

- There is a sorting activity
- looking at parallel and

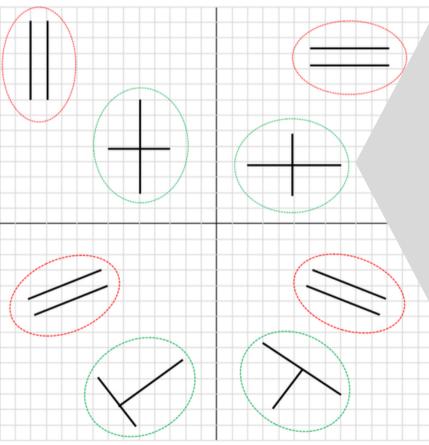
Circle the parallel lines in red. Circle the perpendicular lines in green.



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Circle the parallel lines in red. Circle the perpendicular lines in green.

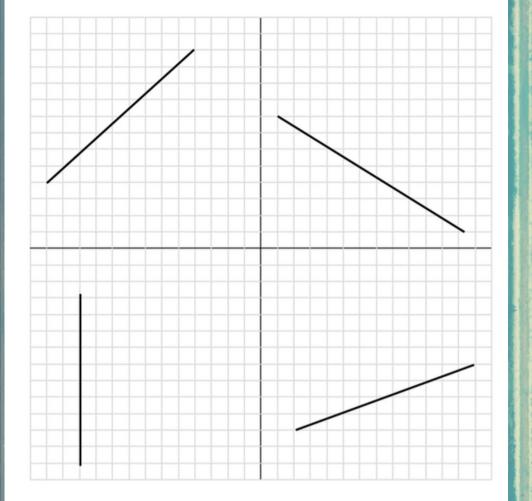


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Identify types of lines

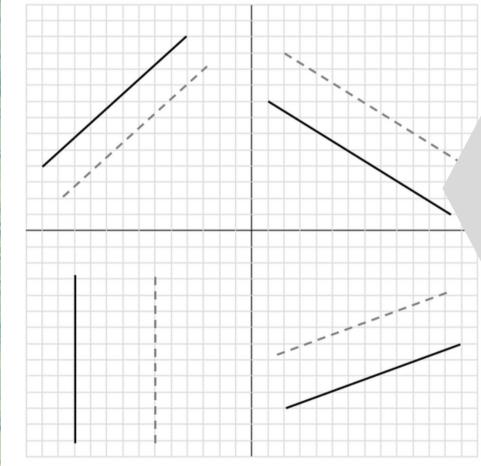
Students will identify which lines are parallel and which are perpendicular either on a grid or on blank paper. There is a differentiated version with the correct answers circled with dashed lines for students to trace.

Draw a line parallel to each line below.



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Draw a line parallel to each line below.

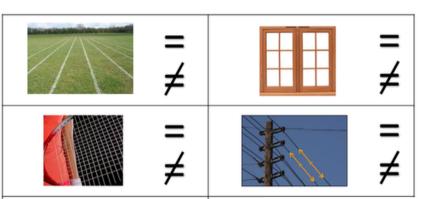


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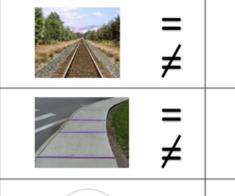


Given a line, students will draw a parallel or perpendicular line to that one. There is a differentiated version with dashed lines for students to trace.

Look at the two line in each example, and determine if their slopes would be the same or different. Circle the correct answer.



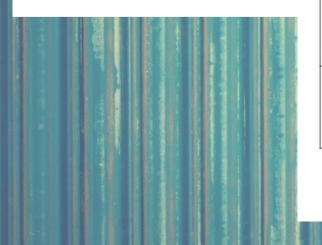
line 1.



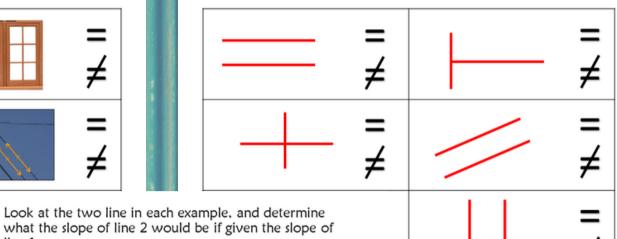
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Look at the two line in each example, and determine if their slopes would be the same or different. Circle the correct answer.



Slope: Slope: Line 1= 4 Line 1= 1/4 Line 2= Line 2= Slope: Slope: Line 1= 6 Line 1=-5 Line 2= Line 2= Slope: Slope: Line 1= 0 Line $1 = -\frac{1}{2}$ Line 2= Line 2= Slope: Slope: Line 1= -4 Line 1= 6 Line 2= Line 2= Slope: Slope: Line 1= 3/4 Line 1= -6 Line 2= Line 2=

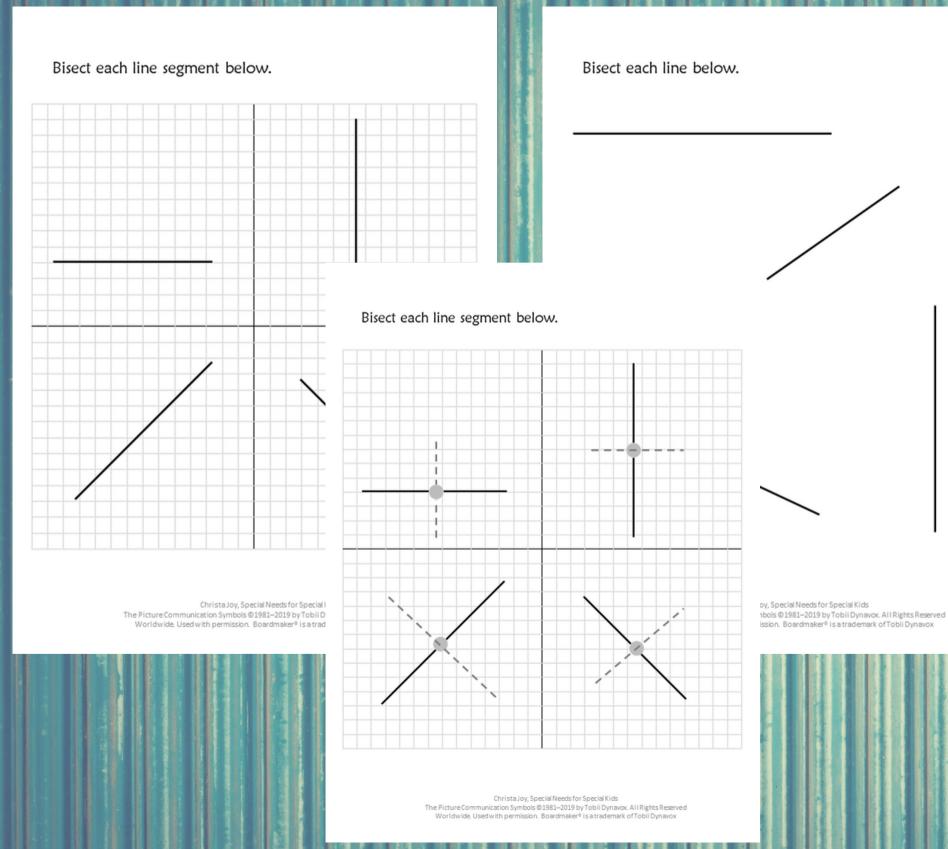
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There are several worksheets where students will answer some questions about the slope of two parallel or perpendicular lines, including simple calculations.

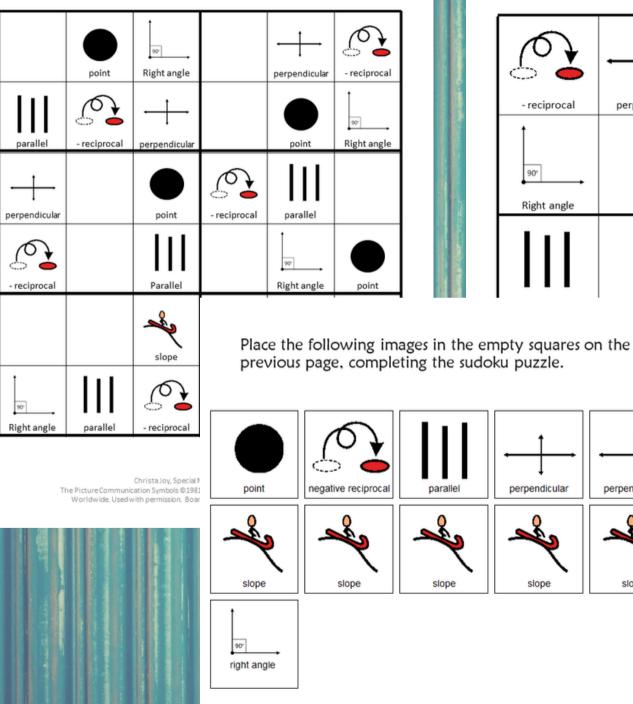




Bisecting Lines

- Students will bisect lines
- either on a grid or blank
- paper where they will
- need to use a ruler. There
- are differentiated
- versions with dashed lines
- for students to trace.

Parallel and Perpendicular Lines



Parallel and Perpendicular Lines

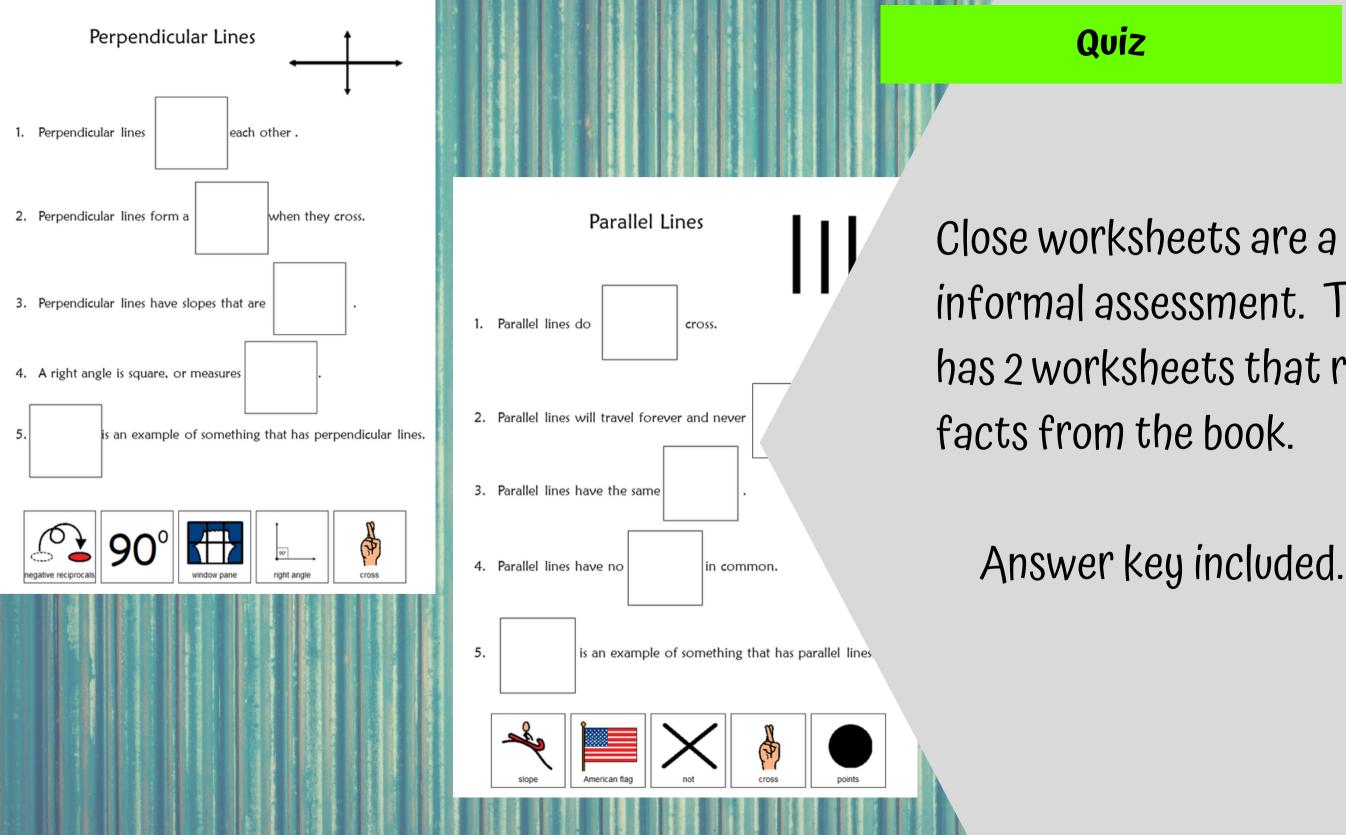
perpendicular parallel **Right angle** reciprocal perpendicular - recip paral ial Needs for Special Kids perpendicular 981-2019 by Tobii Dynavox. All Rights Reserved oardmaker® is a trademark of Tobii Dynavox slope

to work with the new vocabulary!!

answer keys.

There is a Sudoku puzzle in this unit as well. This is a great way

There are 2 versions plus



Close worksheets are a great informal assessment. This unit has 2 worksheets that review

Version 1

Q 3

1. This is made up of a series of points that are connected:

slope



2. How many points do parallel lines have in common?

line





3. What is formed when perpendicular lines cross?





4. Circle all the examples of parallel I



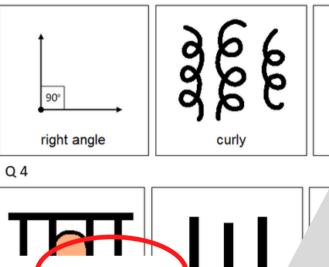
5. What tool do you use to measure



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



Version 3

- 1. This is made up of a series of points that are connected:
- A. Slope
- B. Line
- C. Negative reciprocal
- 2. How many points do parallel lines have in common?
 - All A. 10
 - Β.
 - C. 0
- 3. What is formed when perpendicular lines cross?
- A. Right angle
- B. Curls
- C. point
- 4. Circle all the examples of parallel lines.



- 5. What tool do you use to measure an angle?
 - A. Ruler
 - B. Protractor
 - C. pegboard



are 3 versions.

Version 2

- 10 questions with 3 picture choices for each question
- cut out the answer choices
 - and glue them on index cards
- traditional multiple choice

Answer key included.

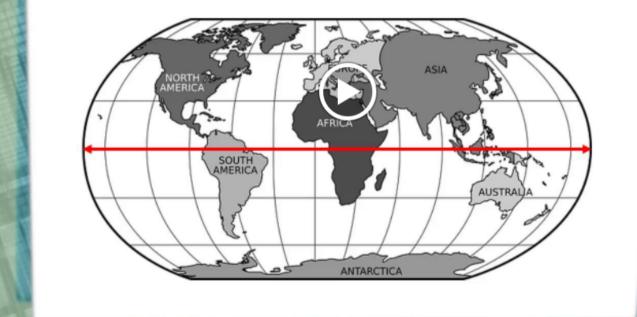
Assessment

FINALLY the assessment!! There

Digital Activities

Watch the movie on lines.

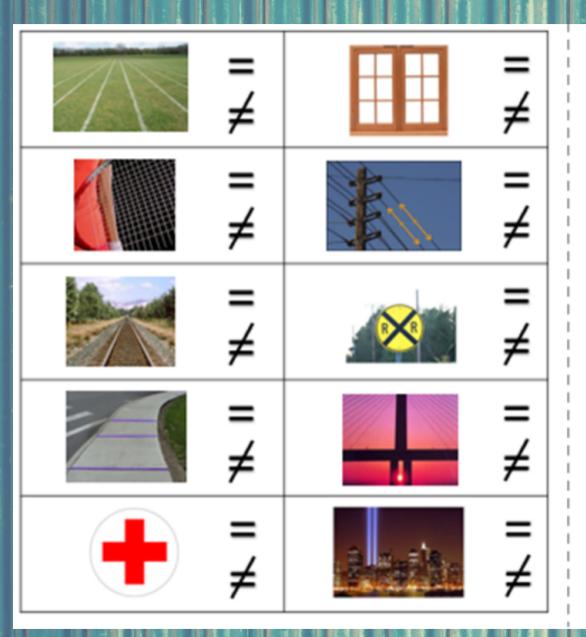
A line is just a series of points joined together that extend in opposite directions forever. A line never ends. The equator is a good example of a line.



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This unit also has digital activities. There is a movie version of the book students can listen to read aloud.

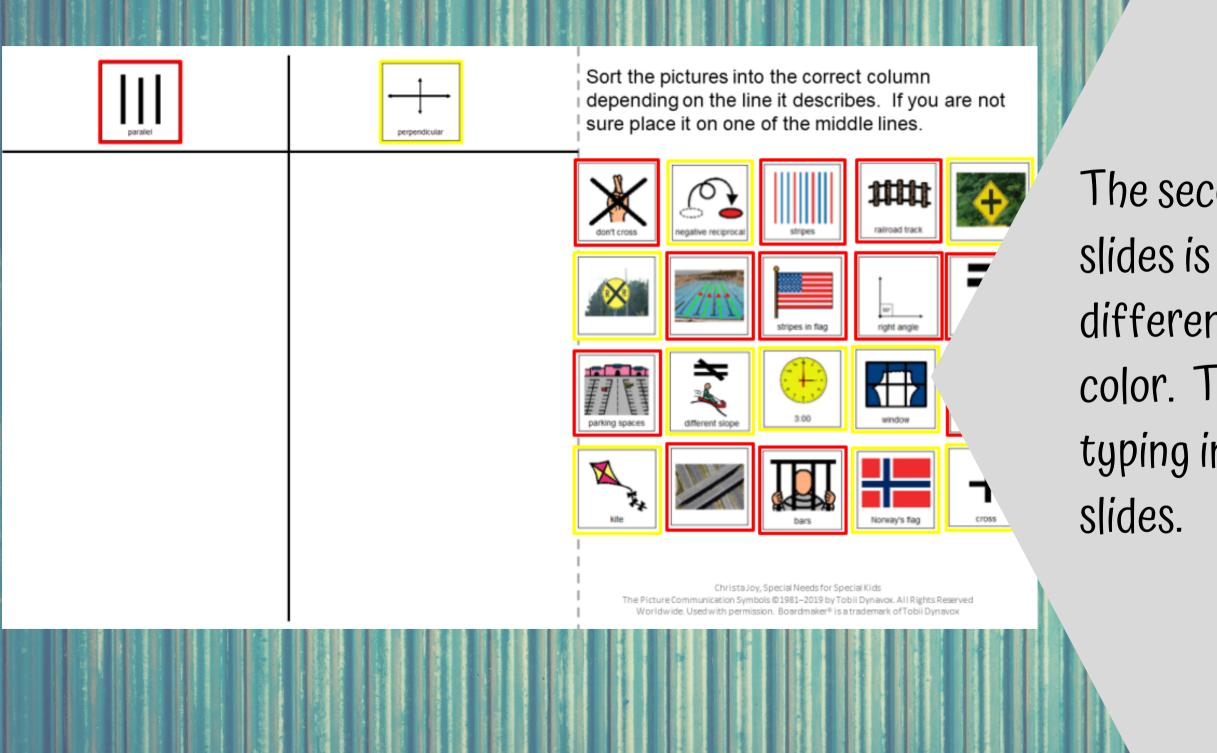


Look at the two line in each example and determine if their slopes would be the same or different. Circle the correct answer.

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- The digital activities
- have students mainly
- click and drag their
- answers. There is
- some typing involved
- in the set without
- differentiation.



The second set of slides is

differentiated using color. There is no typing in this set of

This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- 14 days of lesson plans
- Lines activities in color
- Lines activities in black and white
- Voice-recorded PowerPoint show
- Parallel and Perpendicular Lines book (PowerPoint) to use with activities
- Links and directions to digital activities

Save money by getting this unit as part of the Geometry Bundle



