
SPECIAL ED
GEOMETRY
ANGLES
INCLUDES GOOGLE SLIDES

This unit was created with this guy in mind. He has autism and an intellectual disability. He is a non-reader, 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!!

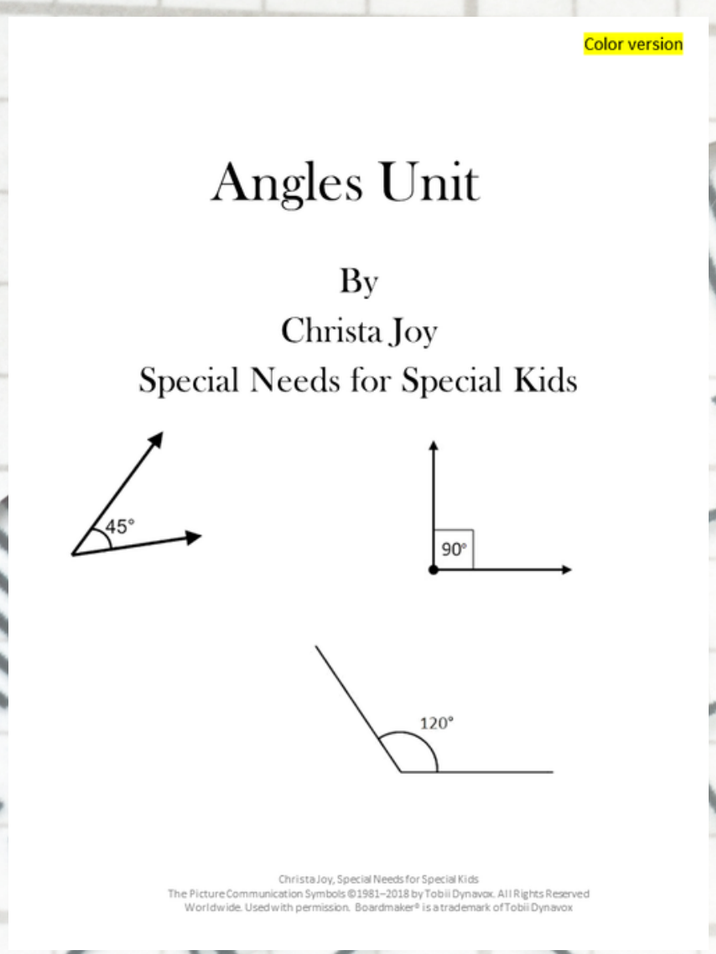


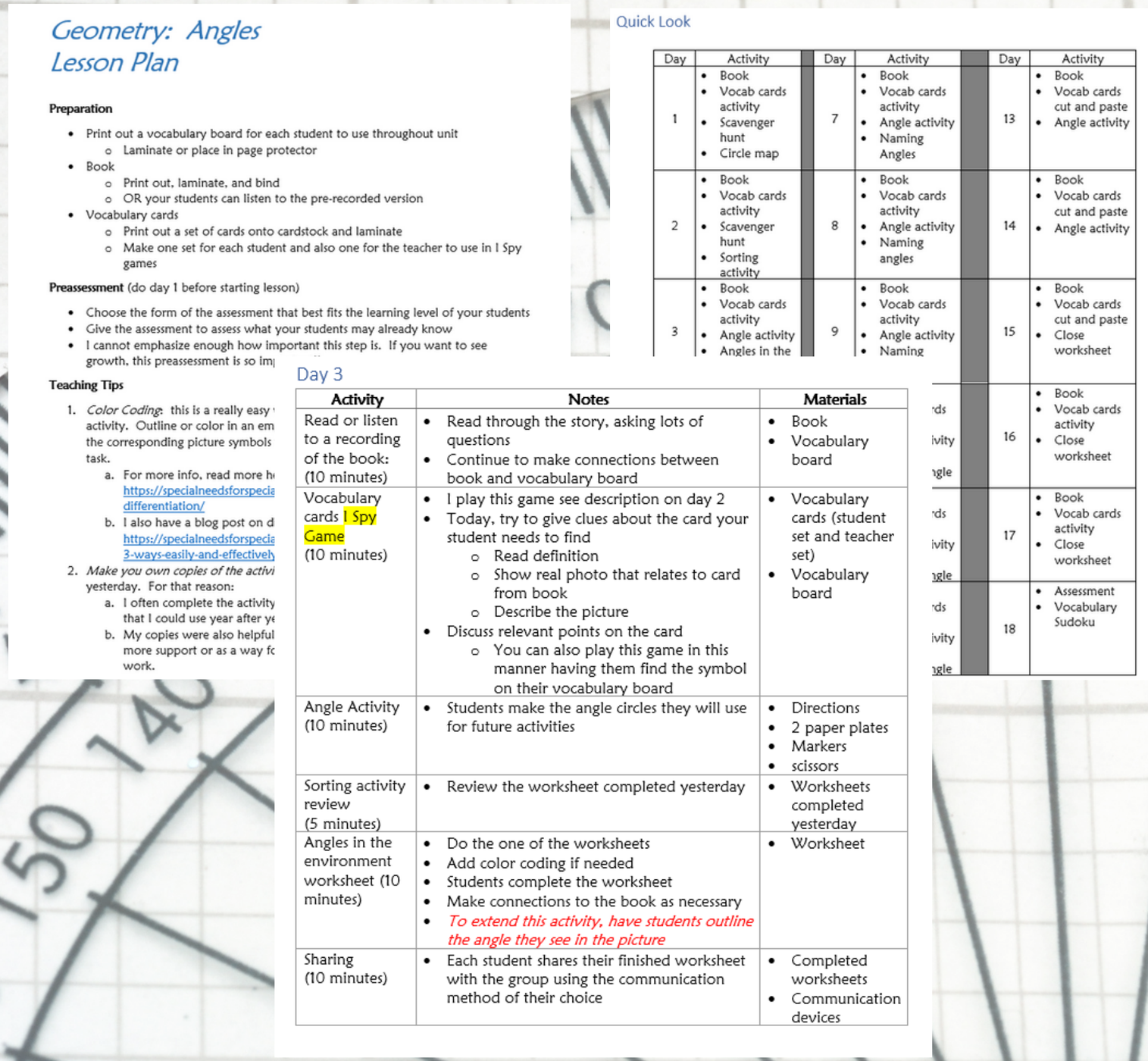
Table of Contents

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

This unit contains 18 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: Angles
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

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 im

Teaching Tips

1. *Color Coding*: this is a really easy
   activity. Outline or color in an em
   the corresponding picture symbols
   task.
   a. For more info, read more h
      https://specialneedsforspecia
      differentiation/
   b. I also have a blog post on d
      https://specialneedsforspecia
      3-ways-easily-and-effectivel
2. *Make you own copies of the activi*
   yesterday. For that reason:
   a. I often complete the activity
      that I could use year after y
   b. My copies were also helpful
      more support or as a way fo
      work.

Quick Look

Day	Activity	Day	Activity	Day	Activity
1	• Book • Vocab cards activity • Scavenger hunt • Circle map	7	• Book • Vocab cards activity • Angle activity • Naming Angles	13	• Book • Vocab cards cut and paste • Angle activity
2	• Book • Vocab cards activity • Scavenger hunt • Sorting activity	8	• Book • Vocab cards activity • Angle activity • Naming angles	14	• Book • Vocab cards cut and paste • Angle activity
3	• Book • Vocab cards activity • Angle activity • Angles in the	9	• Book • Vocab cards activity • Angle activity • Naming	15	• Book • Vocab cards cut and paste • Close worksheet
				16	• Book • Vocab cards activity • Close worksheet
				17	• Book • Vocab cards activity • Close worksheet
				18	• Assessment • Vocabulary Sudoku

Day 3

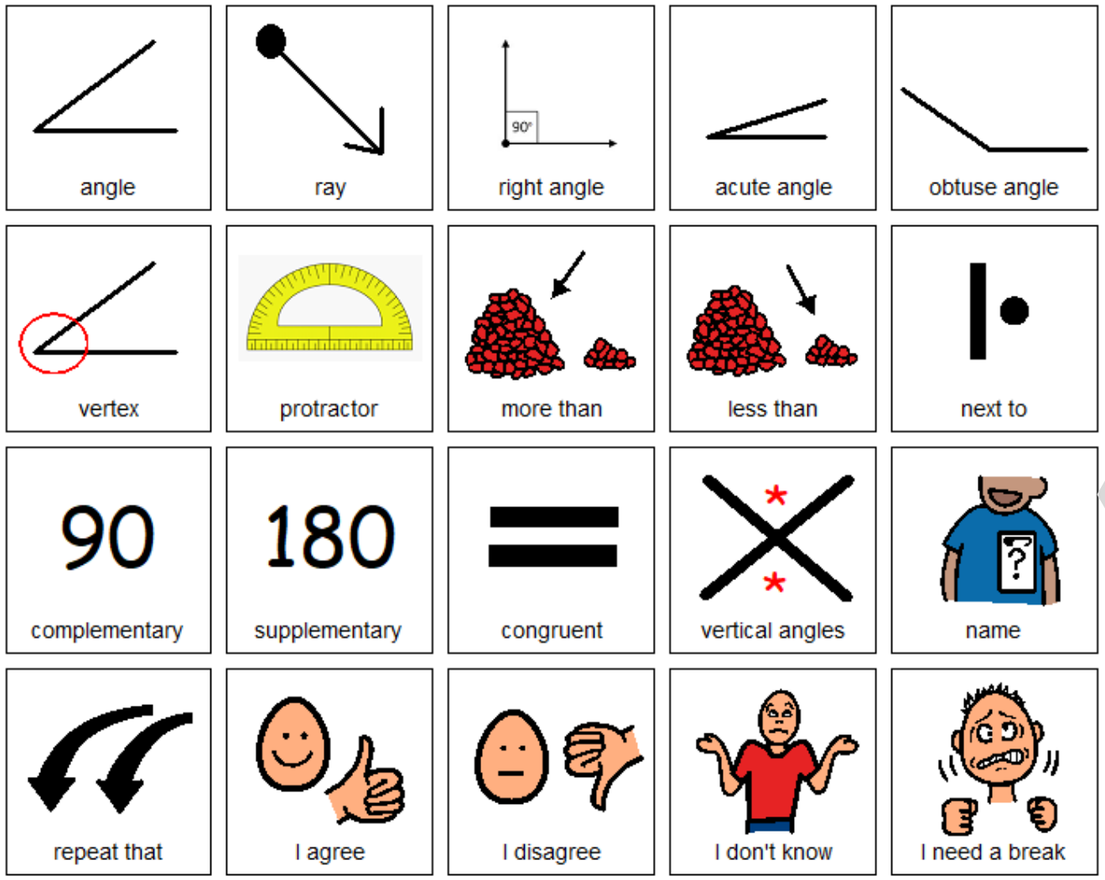
Activity	Notes	Materials
Read or listen to a recording of the book: (10 minutes)	• Read through the story, asking lots of questions • Continue to make connections between book and vocabulary board	• Book • Vocabulary board

Vocabulary cards I Spy Game (10 minutes)	• I 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
	  ○ 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

Angle Activity (10 minutes)	• Students make the angle circles they will use for future activities	• Directions • 2 paper plates • Markers • scissors
Sorting activity review (5 minutes)	• Review the worksheet completed yesterday	• Worksheets completed yesterday
Angles in the environment worksheet (10 minutes)	• Do the one of the worksheets • Add color coding if needed • Students complete the worksheet • Make connections to the book as necessary • *To extend this activity, have students outline the angle they see in the picture*	• Worksheet
Sharing (10 minutes)	• Each student shares their finished worksheet with the group using the communication method of their choice	• Completed worksheets • Communication devices

The lesson plans contain:

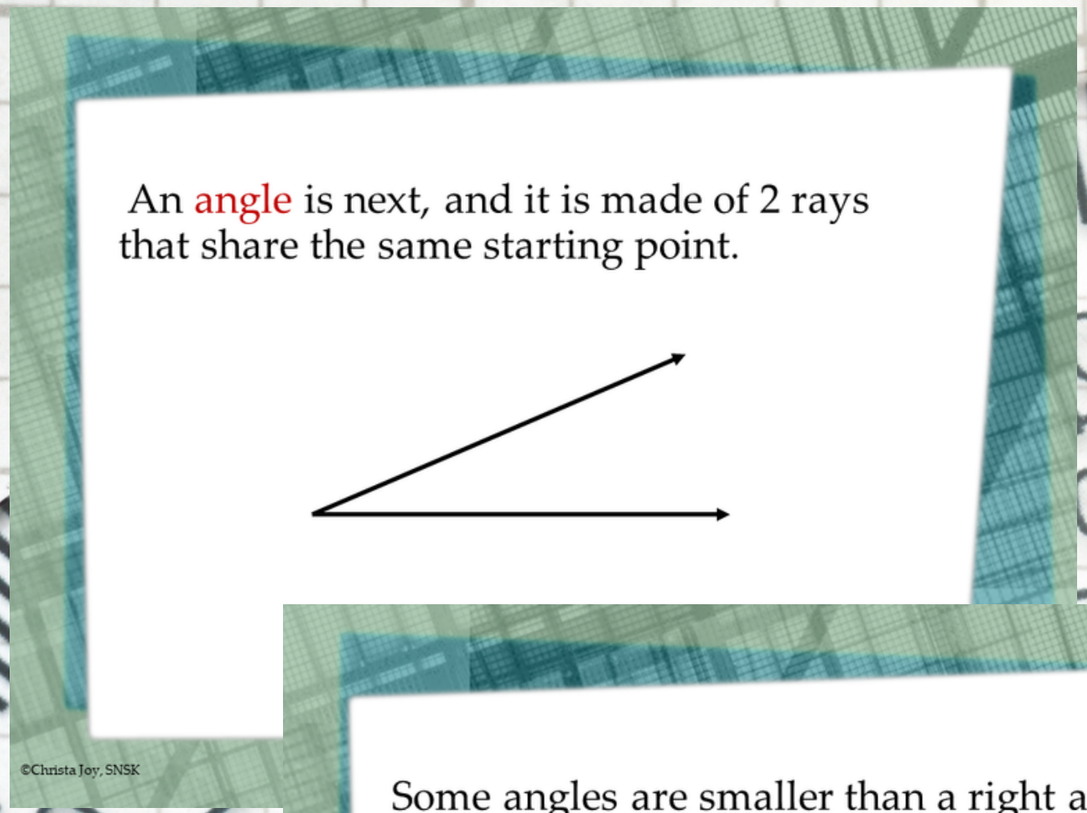
- Overall tips for teaching students with significant needs
- A quick look at what you will do each day
- Detailed instructions on how that day's lesson should run

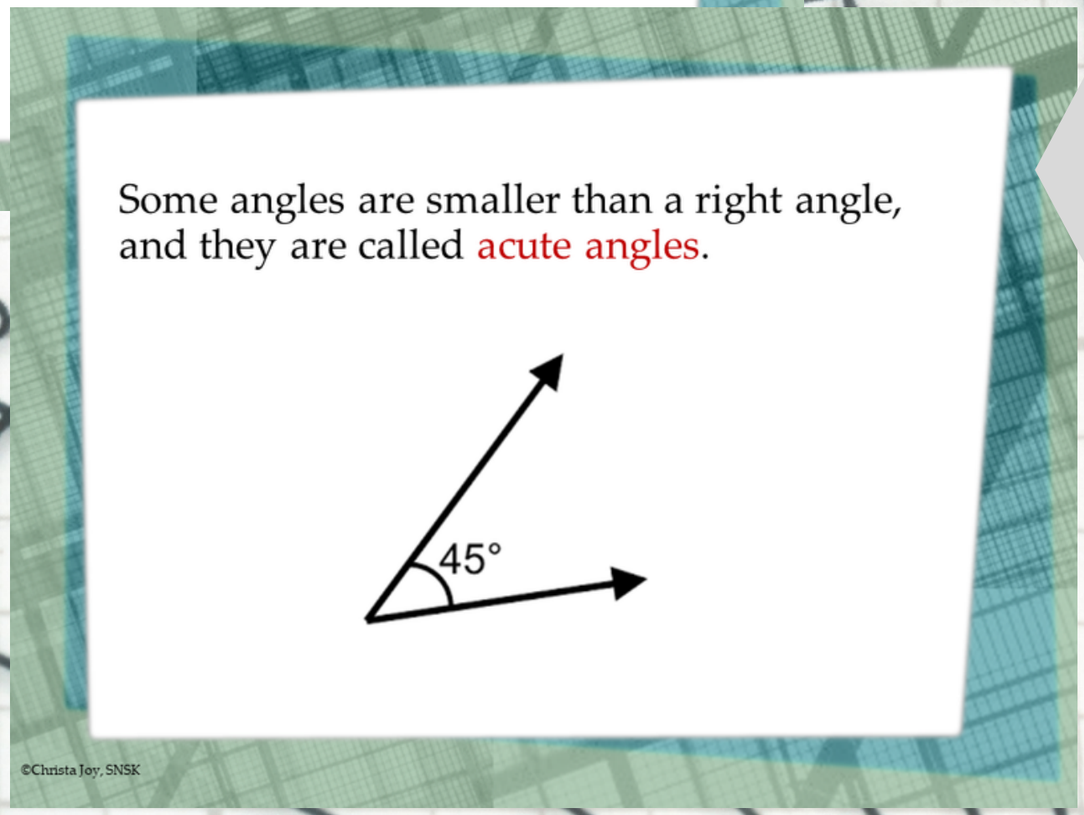


This unit comes with a vocabulary board.

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

Tips on how to use in the unit!!





There is a 47-page book about angles that students will use to complete the activities.

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

Hands on activities for angles

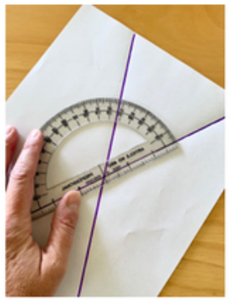
1. Make your own angle creator
   - Need
     - 2 paper plates
     - Markers
     - Scissors
   - Color each plate a different color
   - Cut from the outer circumference to the center of each circle
   - Slide the circles together where you cut them
   - Manipulate to make different sized angles



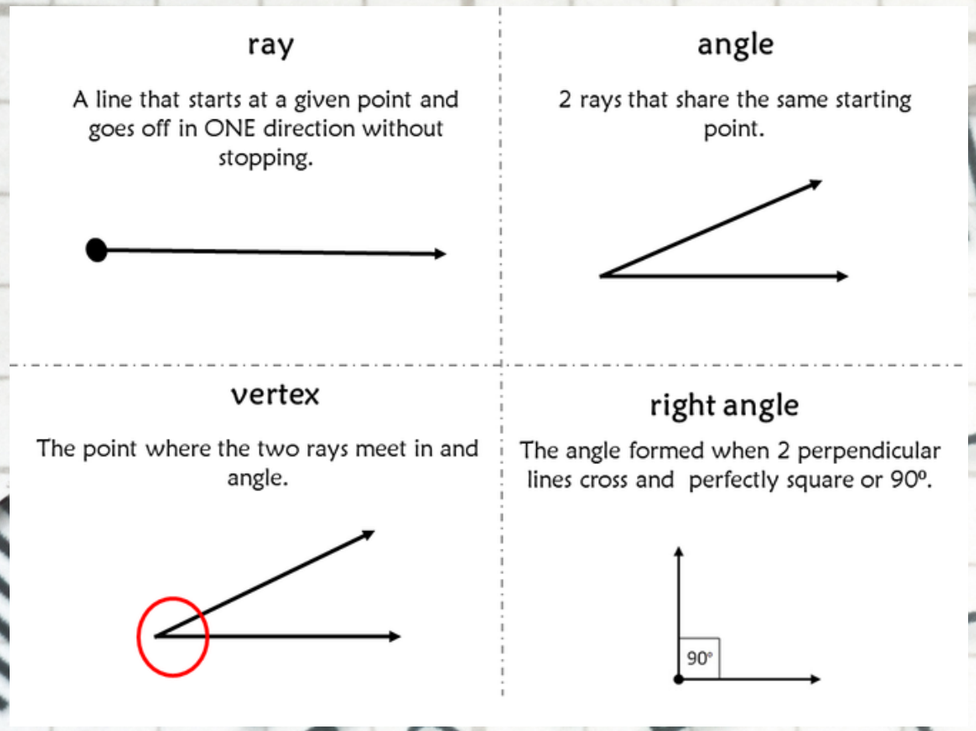
Hands on activities for angles

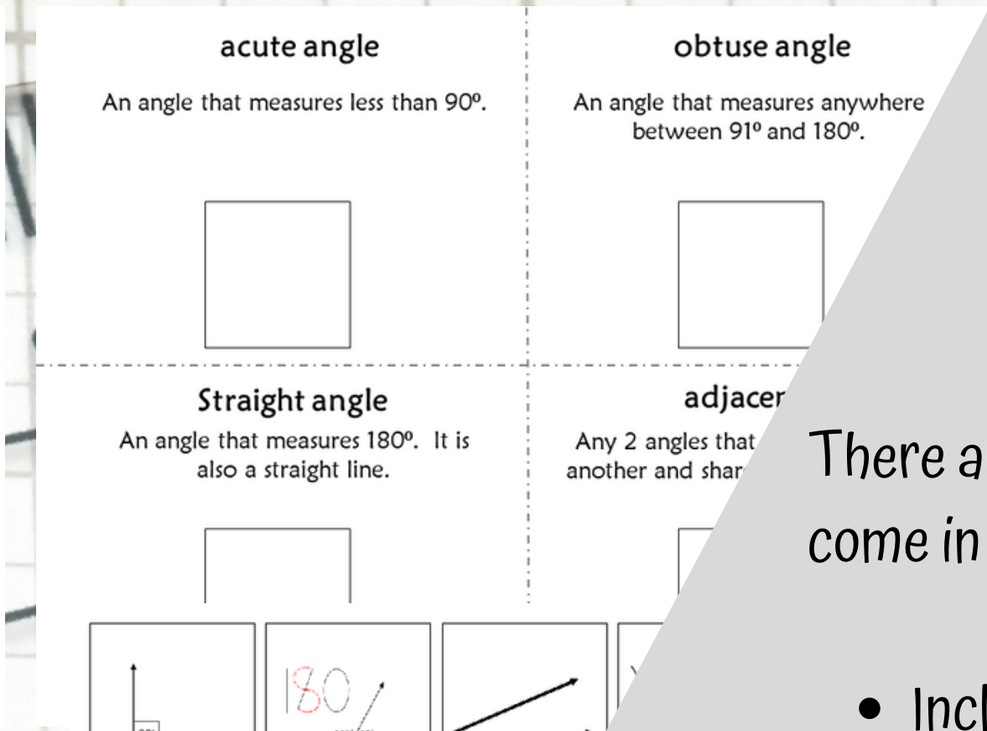
2. Folding paper and measuring angles
   - Need
     - Piece of paper
     - Markers
     - Protractor
   - Fold a piece of paper in random ways
   - Outline the folds with marker (optional)
   - Have students measure the angles formed using a protractor

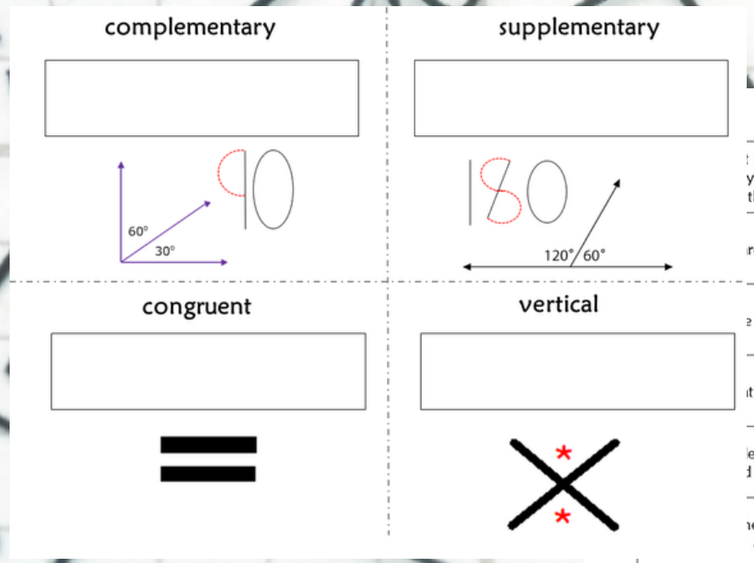


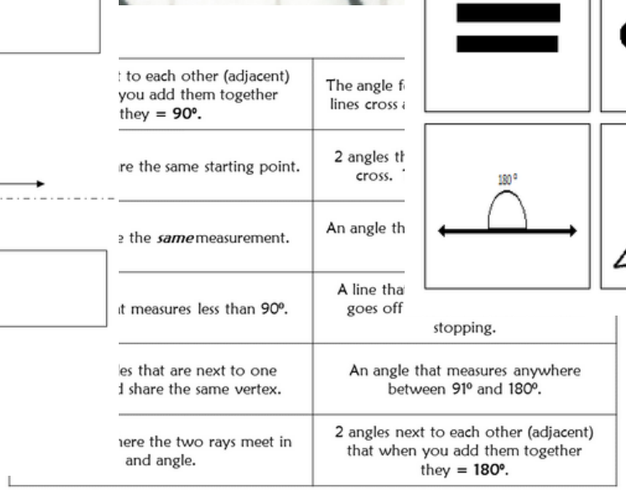


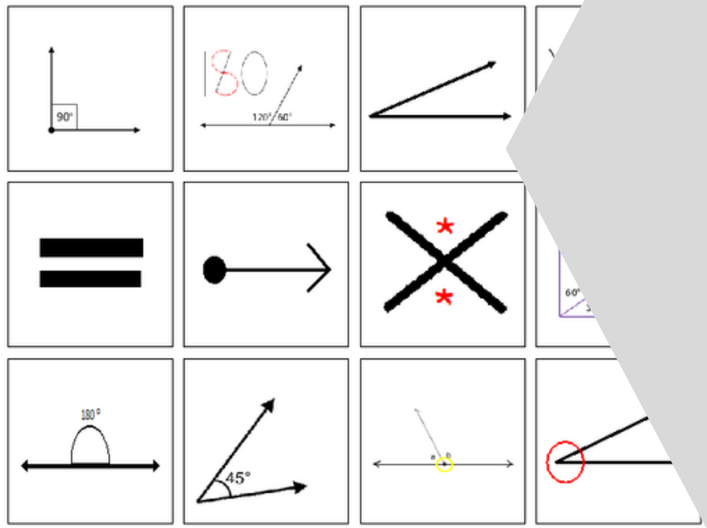
There are two hands-on activities.





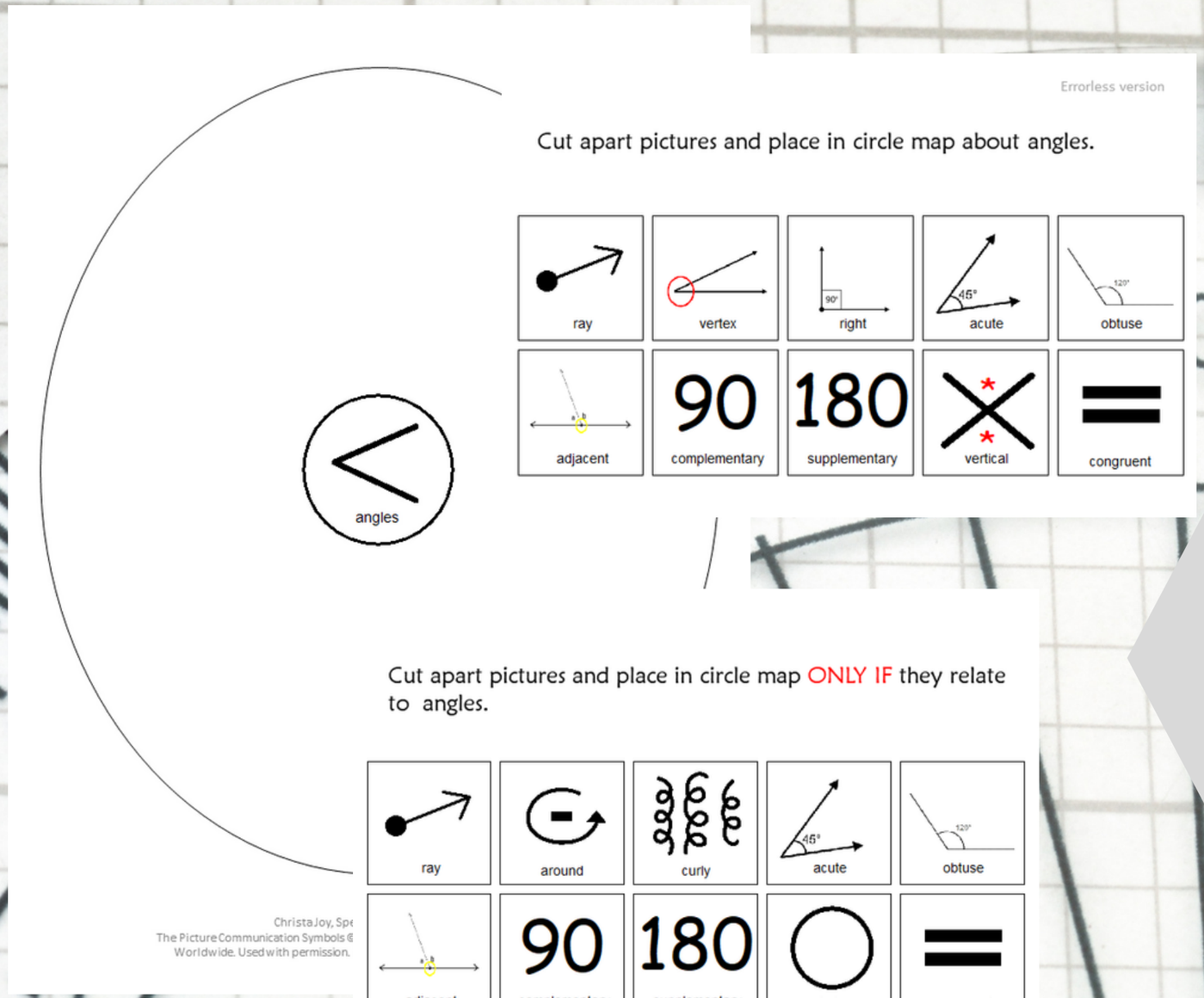






There are 12 vocabulary cards that come in color and black and white.

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



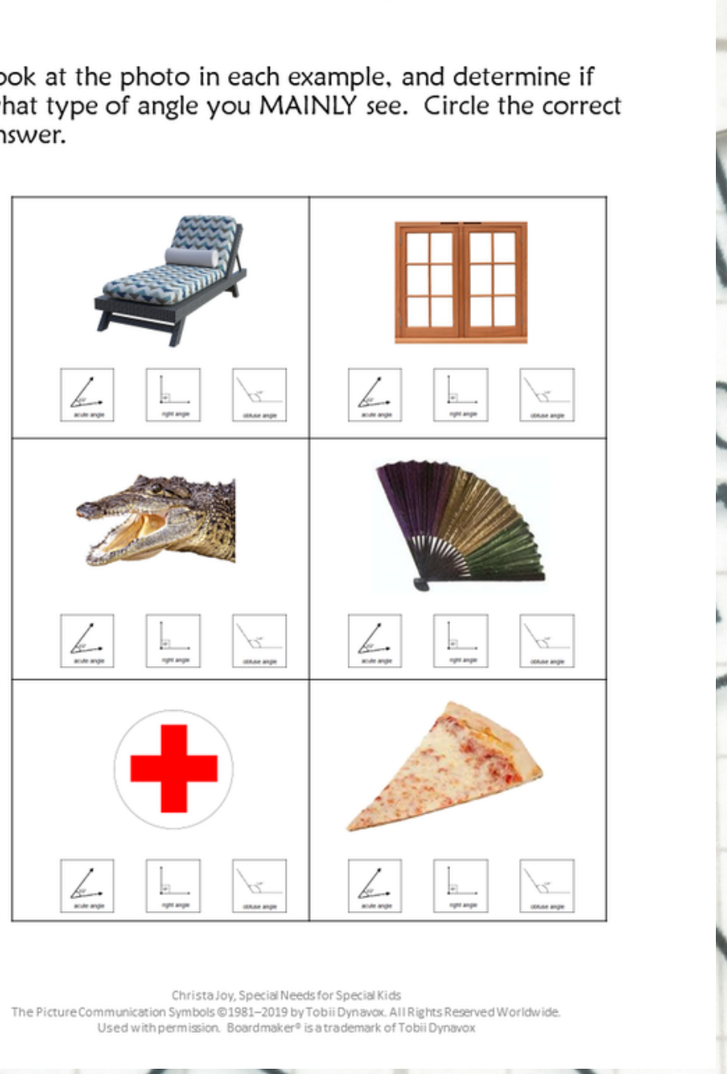
There is a circle map on angles, reviewing facts from the book.

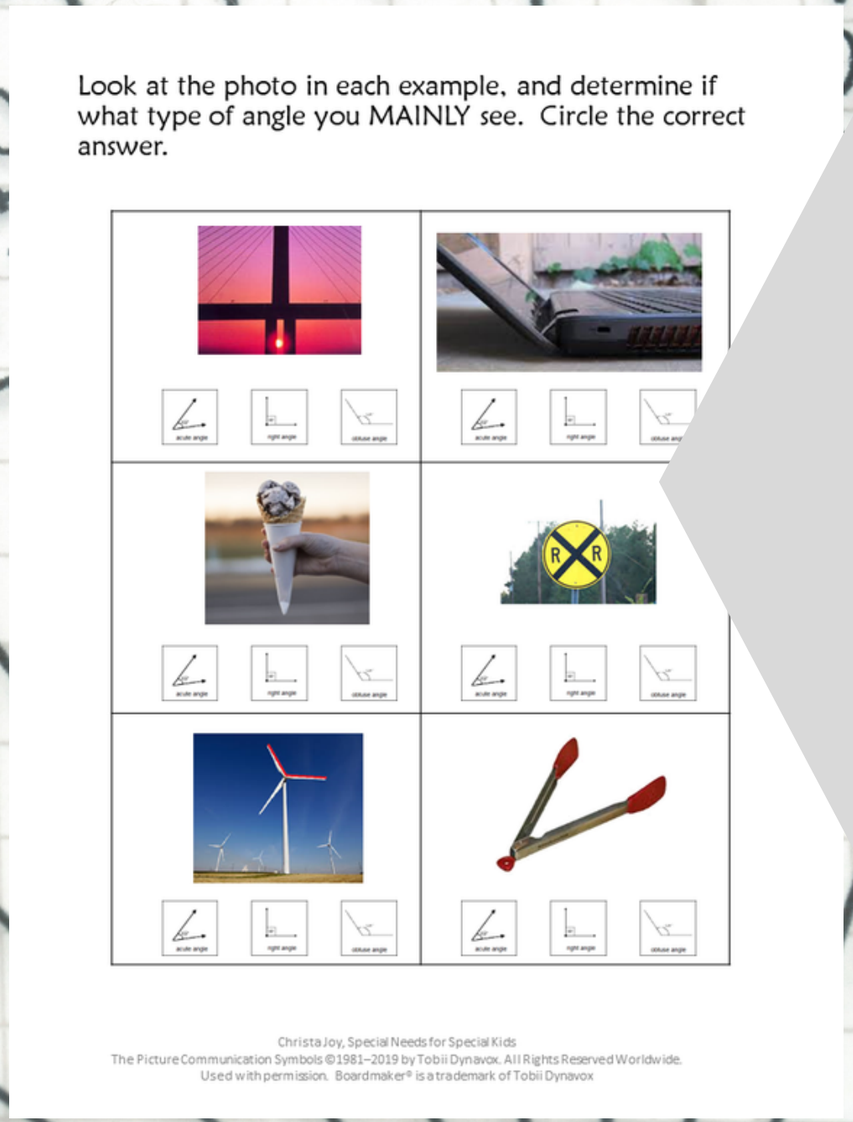
Circle maps are a great way for students to see the concept at a glance. There are 2 versions:

- One is errorless
- One has wrong answers mixed in students will have to set aside.

There is a sorting activity looking at examples of acute, right, and obtuse angles. Suggestions for differentiation are included.

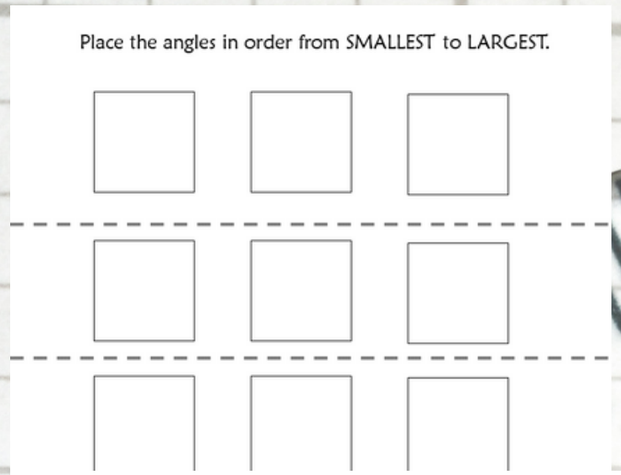
Identify types of angles

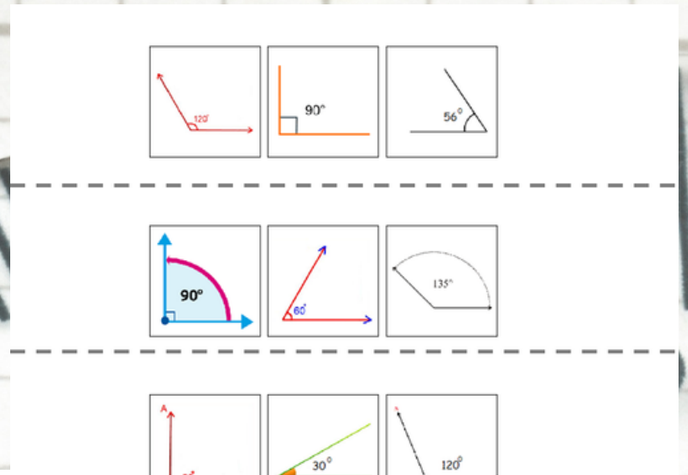


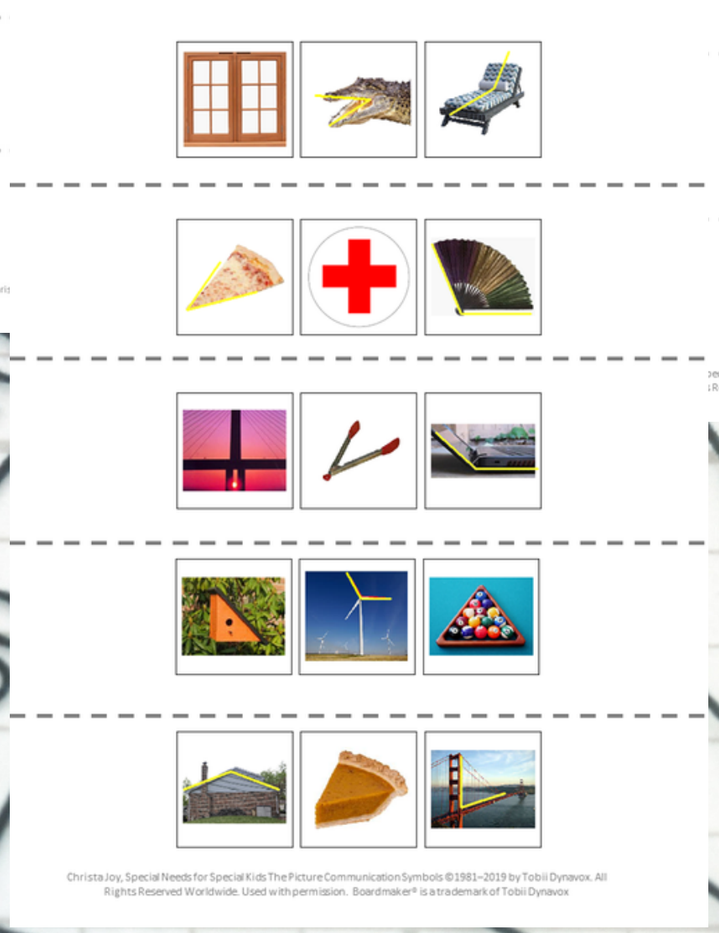


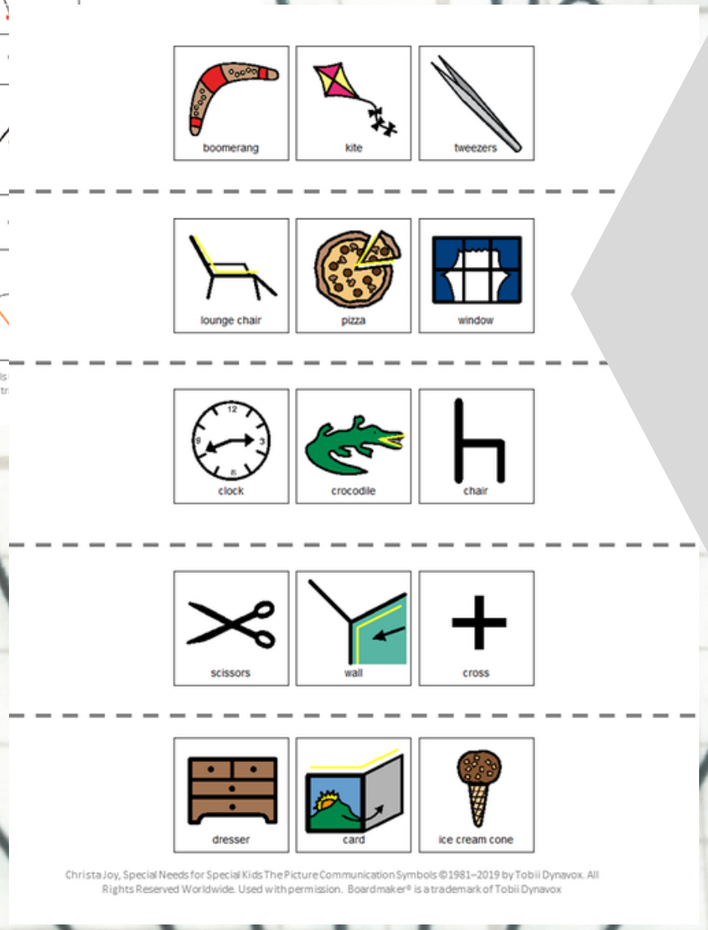
Students will identify acute, right, and obtuse angles in the environment. Suggestions for extension activities for this are included.

Ordering angles





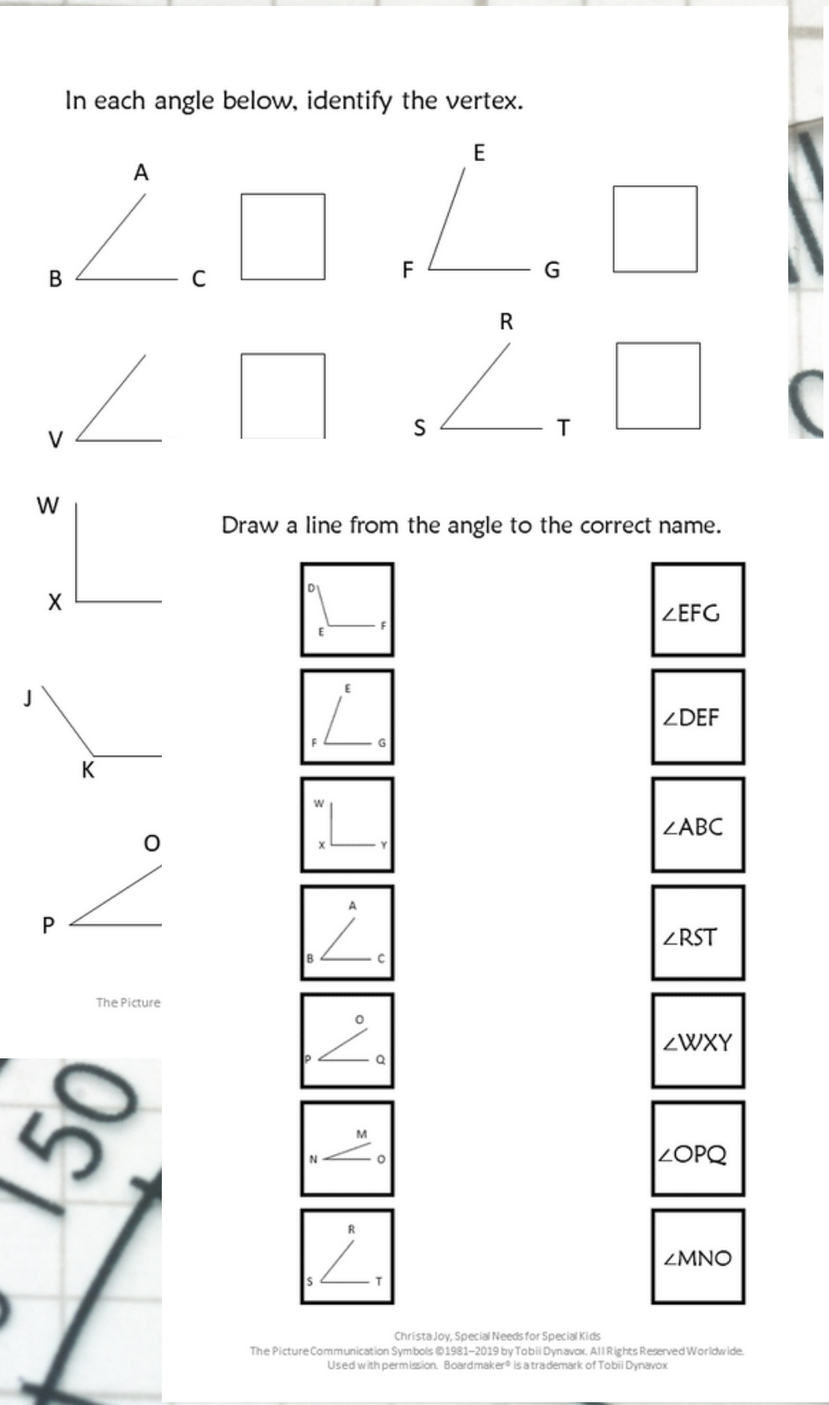




There are 4 worksheets where students will order angles by size from smallest to largest. Includes angles, photos and pictures symbols.

Naming angles

There are 4 worksheets where students will name angles using different methods. There are 2 versions and there are differentiated versions included.


In each angle below, identify the vertex.

A B C

E F G

V

R S T

W X

J K

O P

Draw a line from the angle to the correct name.

∠EFG

∠DEF

∠ABC

∠RST

∠WXY

∠OPQ

∠MNO

Christa Joy, Special Needs for Special Kids
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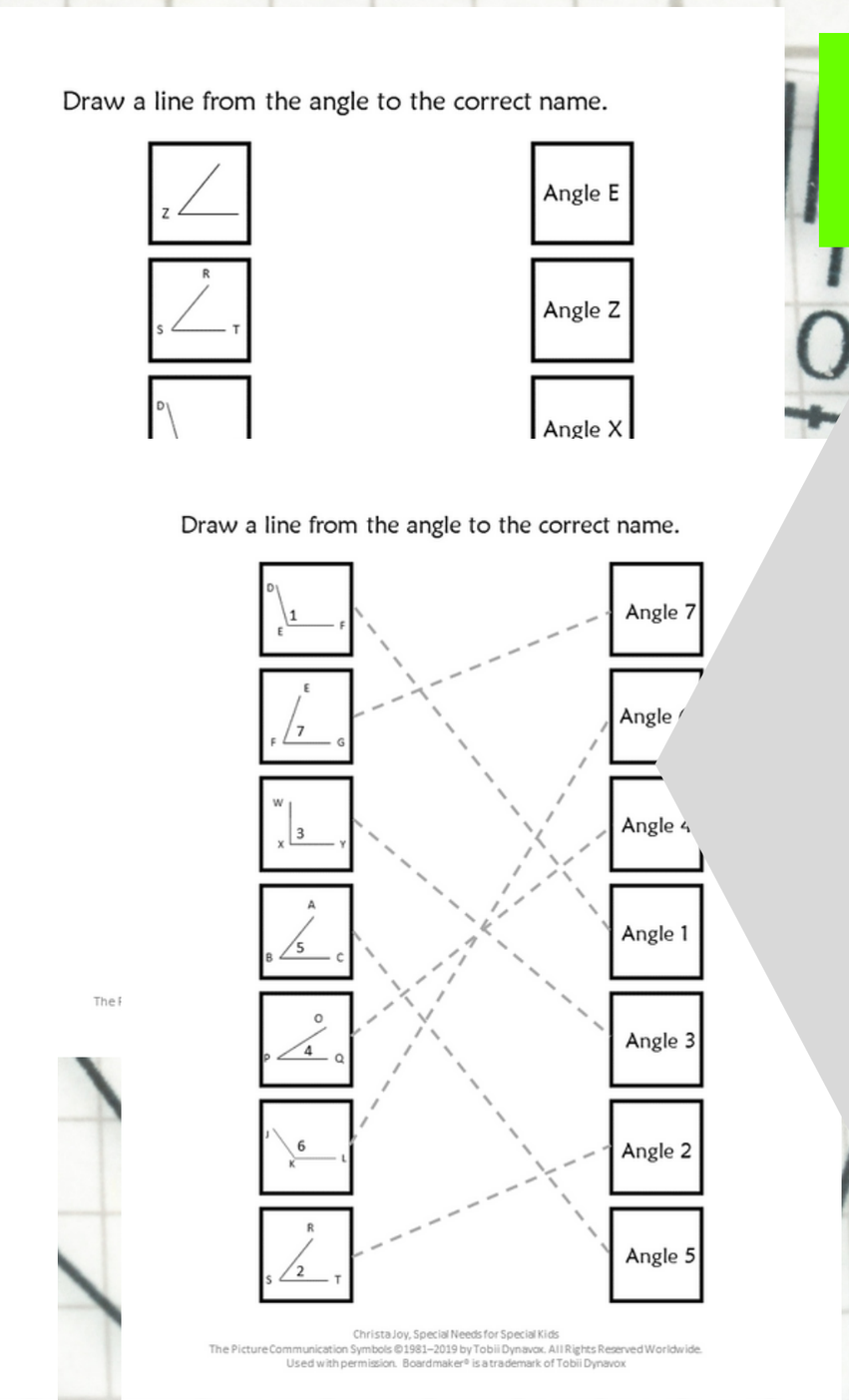
Draw a line from the angle to the correct name.

Angle E

Angle Z

Angle X

Draw a line from the angle to the correct name.

Angle 7

Angle 1

Angle 3

Angle 2

Angle 5

Christa Joy, Special Needs for Special Kids
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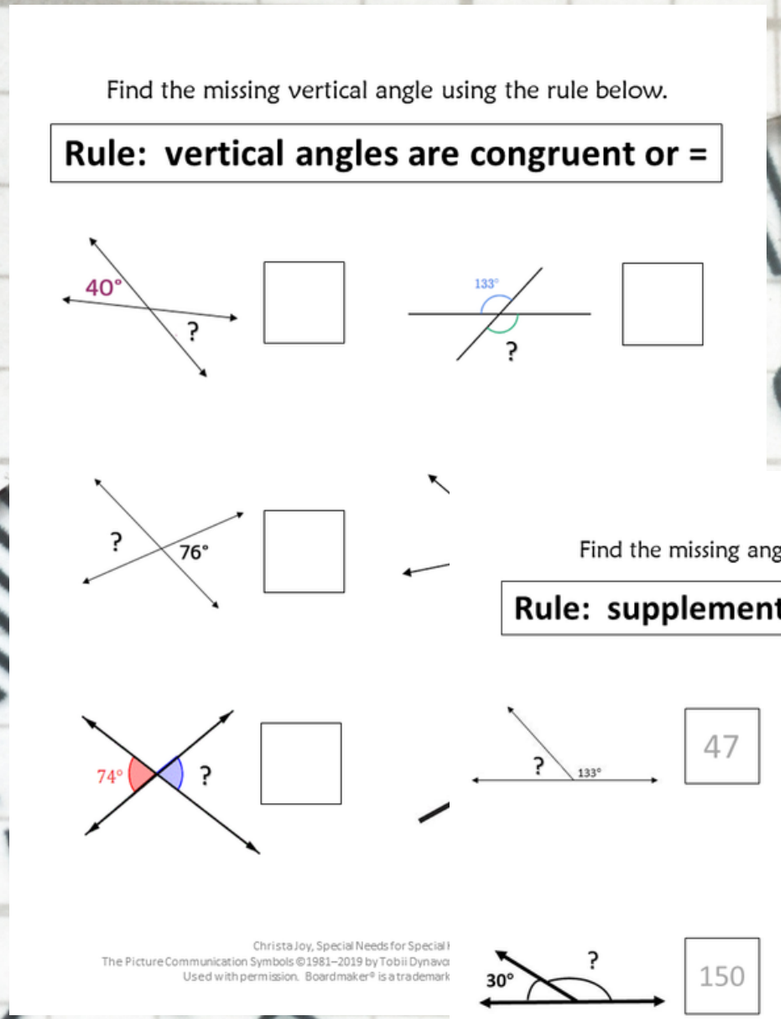
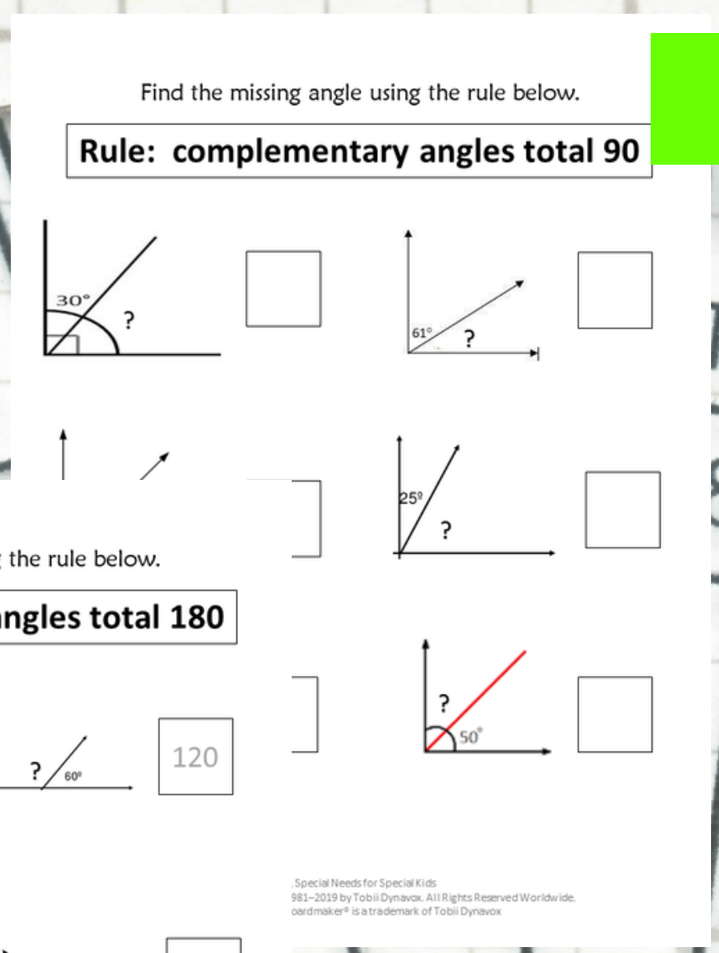
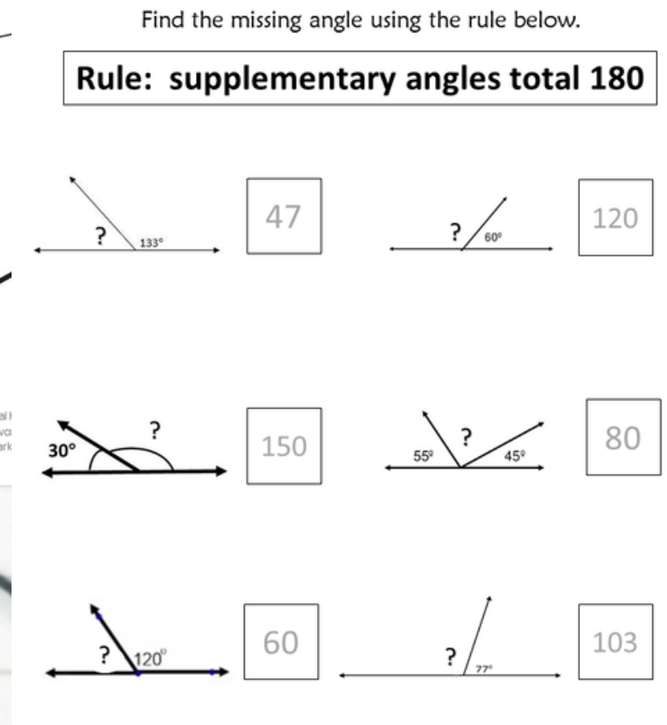
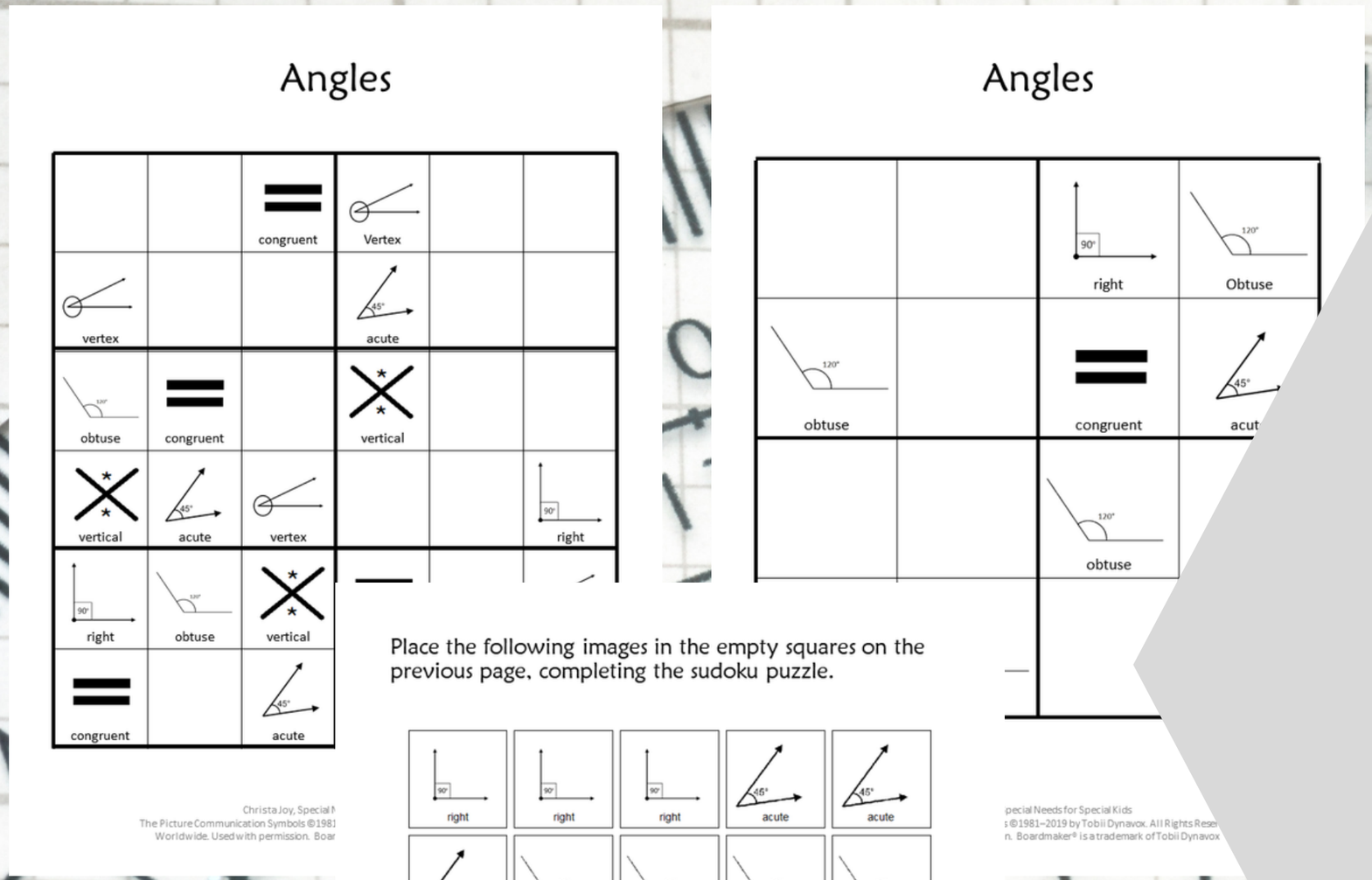
Find missing angles







Given a rule, students will find the missing angle. There are differentiated versions with the correct answer in gray.



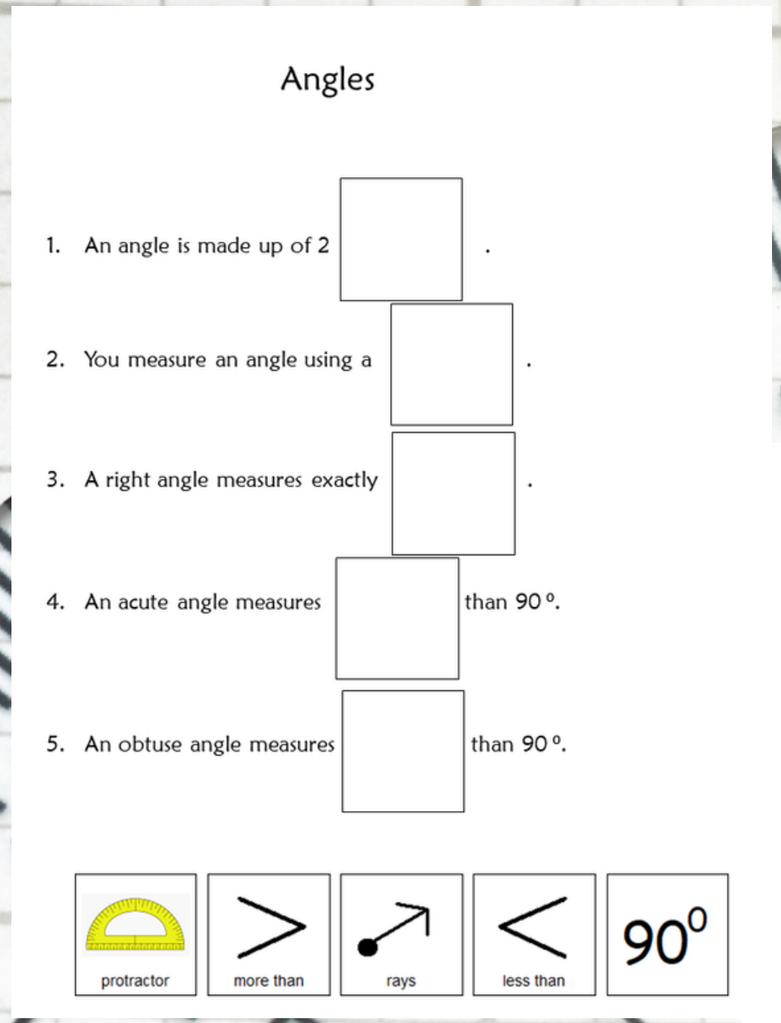
There is a Sudoku puzzle in this unit as well. This is a great way to work with the new vocabulary!!

There are 2 versions plus answer keys.

Quiz

Close worksheets are a great informal assessment. This unit has 3 worksheets that review facts from the book.

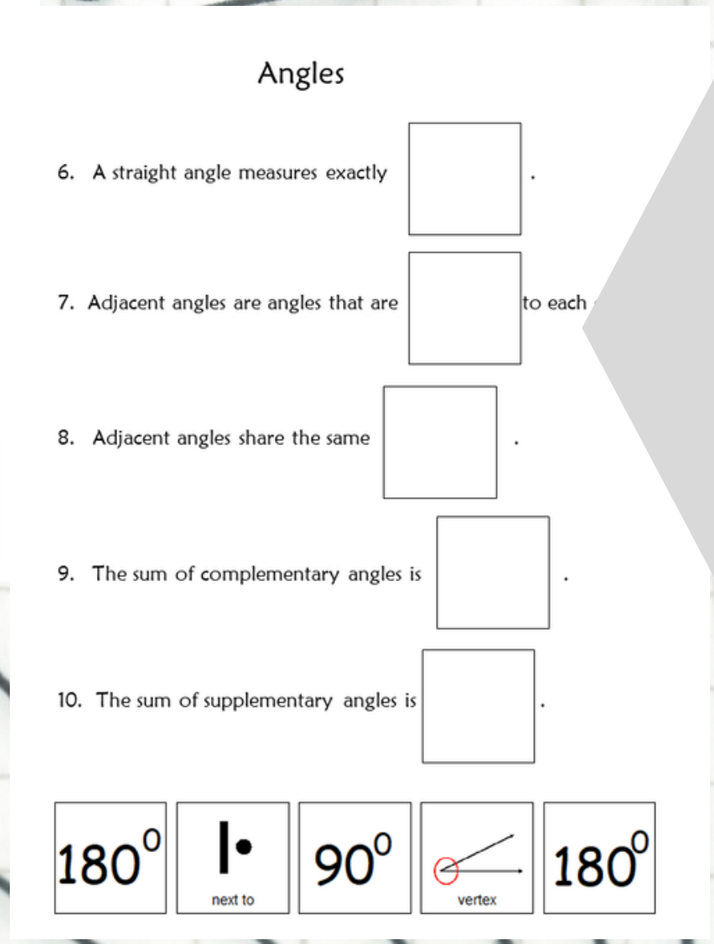
Answer key included.



Angles

1. An angle is made up of 2 ____ .
2. You measure an angle using a ____ .
3. A right angle measures exactly ____ .
4. An acute angle measures ____ than 90 °.
5. An obtuse angle measures ____ than 90 °.

protractor | more than | rays | less than | 90^0



Angles

6. A straight angle measures exactly ____ .
7. Adjacent angles are angles that are ____ to each
8. Adjacent angles share the same ____ .
9. The sum of complementary angles is ____ .
10. The sum of supplementary angles is ____ .

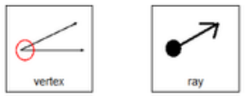
180^0 | next to | 90^0 | vertex | 180^0

Version 1

1. Circle all the acute angles:

2. This tool is used to measure angles:

3. An angle is named using the:



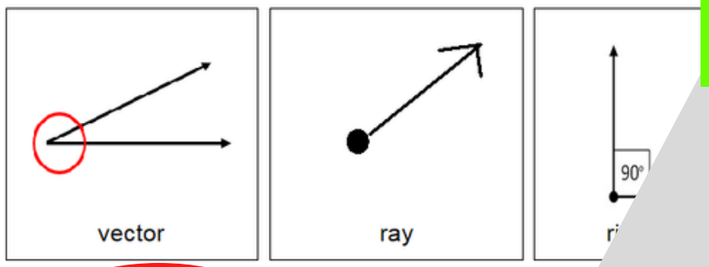
4. Circle all the obtuse angles.

5. Adjacent angles are:

Version 2

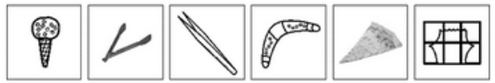
Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Q 3



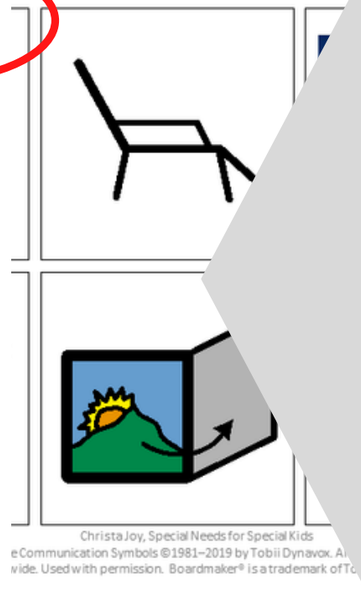
Version 3

1. Circle all the acute angles:



2. This tool is used to measure angles:
   A. Ruler
   B. Protractor
   C. scale
3. An angle is named using the:
   A. Vertex
   B. Ray
   C. Right angle
4. Circle all the obtuse angles.

5. Adjacent angles are:
   A. Opposite each other
   B. Next to each other
   C. Beneath each other



Assessment

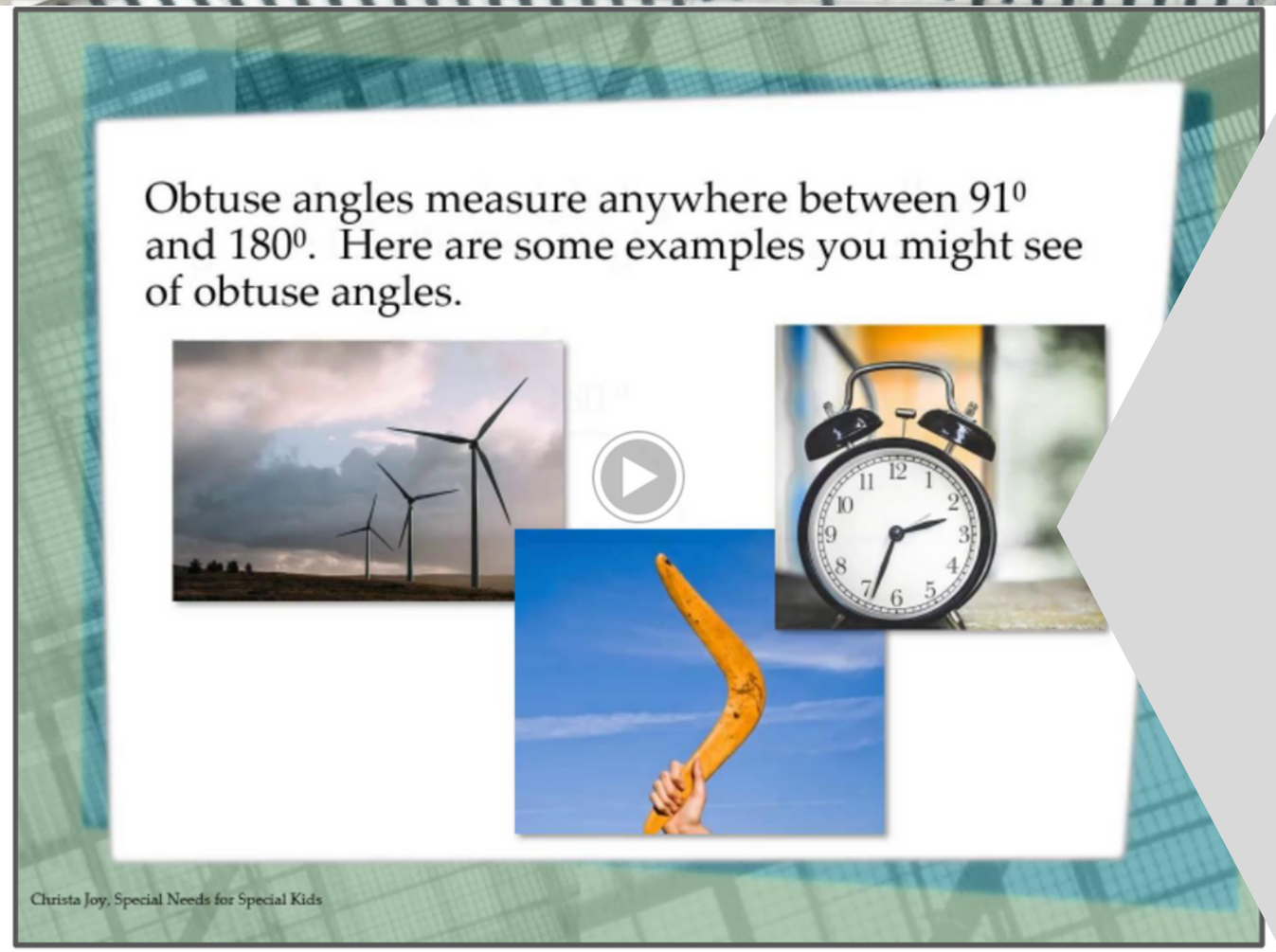
FINALLY the assessment!! There are 3 versions.

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

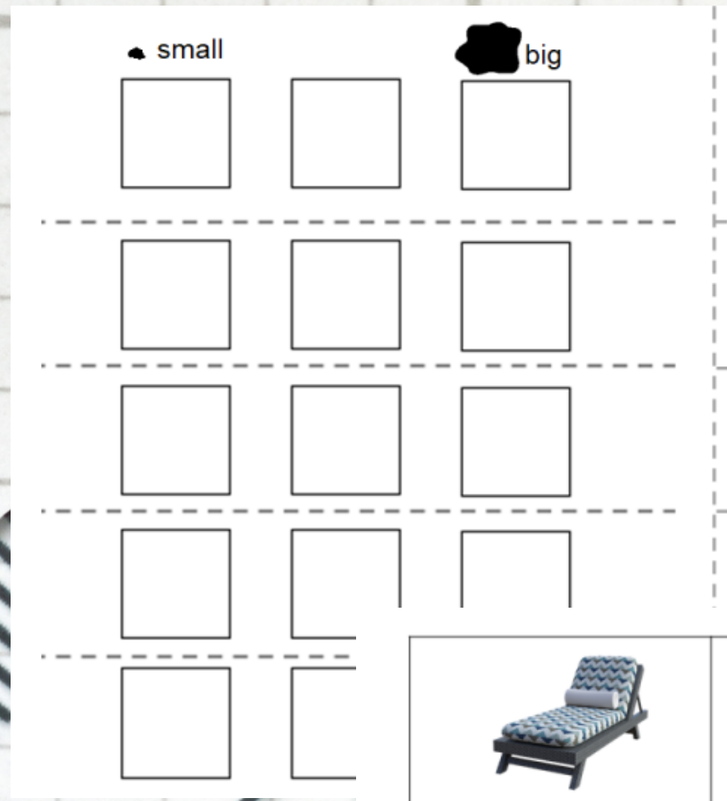
Answer key included.

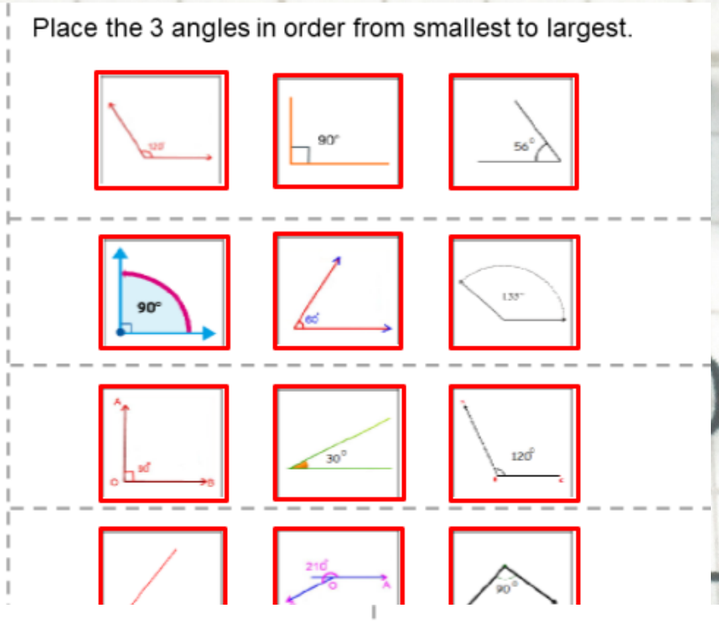
Digital Activities

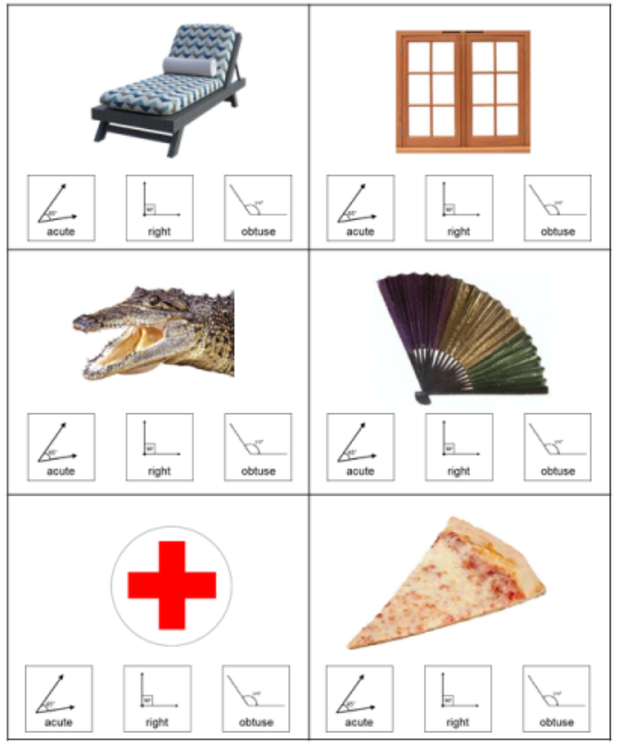
Watch the movie on angles.

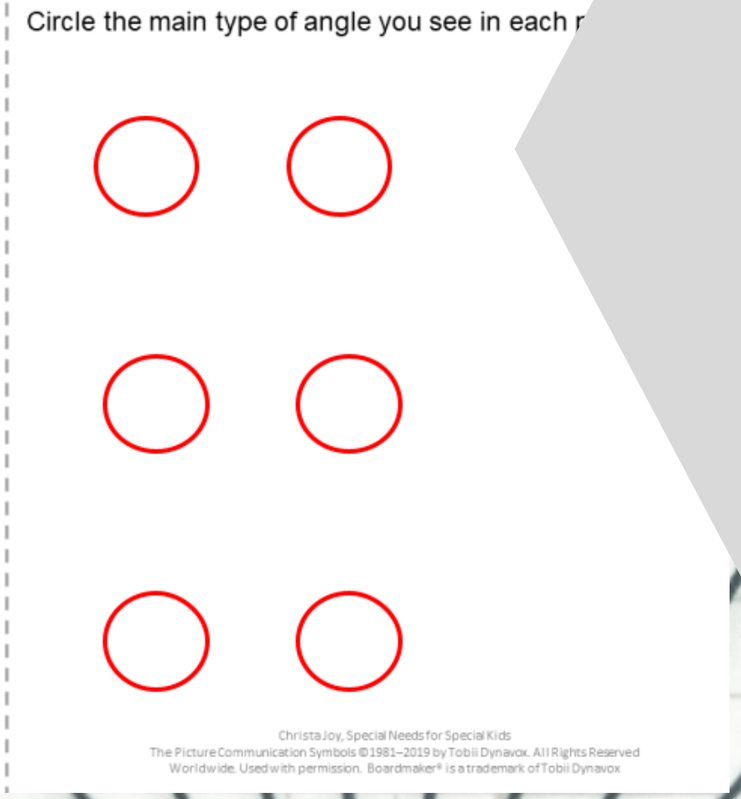


This unit also has digital activities. There is a movie version of the book students can listen to read aloud.

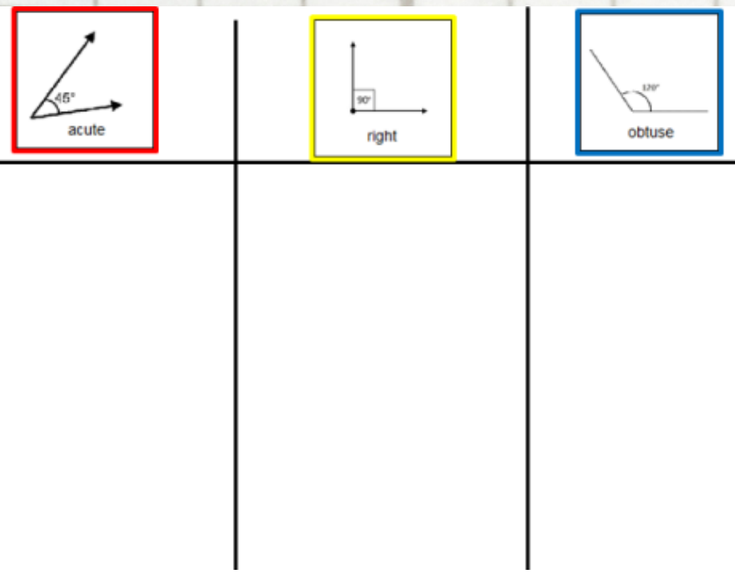




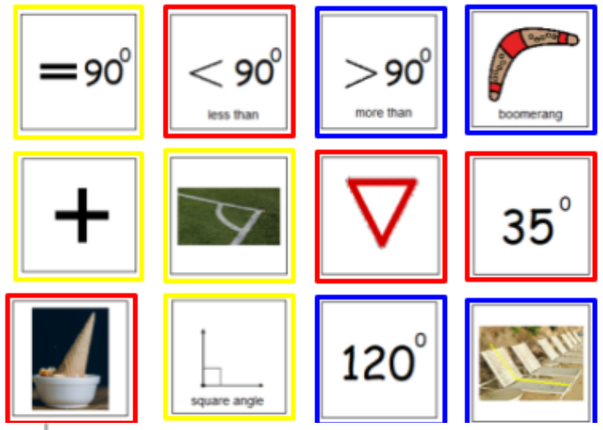




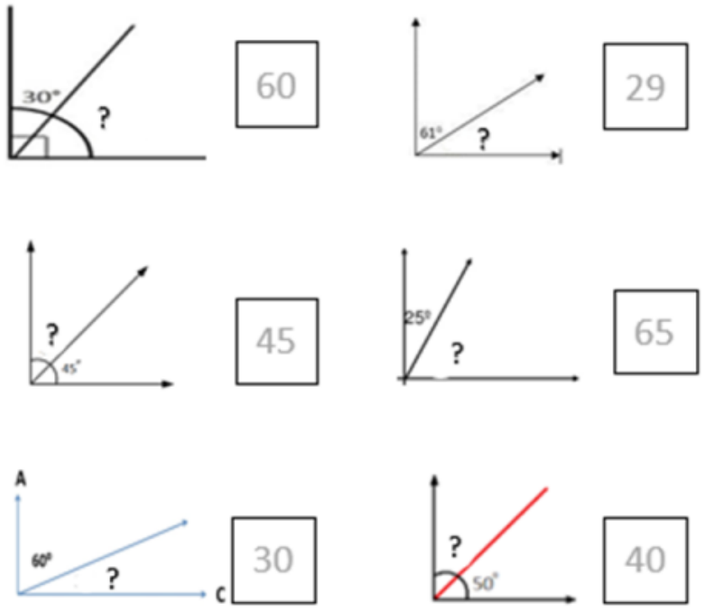
The digital activities have students mainly click and drag their answers. There is some typing involved in the set without differentiation.



Sort the pictures into the correct column depending on the angle it describes. If you are not sure place it on one of the middle lines.



Rule: complementary angles total 90



Find the missing angle using the rule.

60	45
30	29
65	40

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

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

- 18 days of lesson plans
- Angles activities in color
- Angles activities in black and white
- Voice-recorded PowerPoint show
- All About Angles book (PowerPoint) to use with activities
- Links and directions to digital activities

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

Geometry Bundle