

Grade 4

Distance Learning Module 2: Week of: April 6th

Content Area: Grade 4 Math - Modified from Unit 5 - Geometry & Measurement

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Students will compare, analyze, classify, and measure polygons and angles.

Vocabulary: angle, acute angle, obtuse angle, ray, right angle, straight angle, zero angle, protractor

angle: the figure formed by 2 rays or line segments that share an endpoint

acute angle: an angle with a measure greater than 0° and less than 90°

obtuse angle: an angle with a measure greater than 90° and less than 180°

ray: a set of connected points that continues in one direction without end

right angle: an angle with a measure of exactly 90°

straight angle: an angle with a measure of exactly 180°

zero angle: an angle whose measure is zero degrees

protractor: a tool used to measure angles (including angles you want to draw)

Skills:

Identifying, drawing, comparing, analyzing and classifying angles

- Measuring and sketching angles with a protractor
- Identifying and drawing perpendicular and parallel lines

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>Monday: Understanding types of angles</p> <p>Today your mission is to investigate angles around your house. You will be successful if you find a right angle, acute angle and obtuse angle.)</p> <p>Practice Multiplication or Division Facts</p>	<ol style="list-style-type: none">1. Watch the Brainpop video on 180 degree angles. Username & Password are in Google classroom2. Look and observe different angles, acute, right, obtuse in your house, and make notes.3. Complete Student Book page 165. Then, check your answers here. You do not have to show your teacher your work.4. Complete the questions on the Google Form about angles.5. Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	<p>Complete the questions on the Google Form about angles. When you are done, hit submit and it will automatically go to your teacher.</p>
<p>Tuesday: Understanding benchmark angles</p> <p>Today your mission is to investigate and have a better understanding of measuring angles using pattern blocks. You will be successful if you can measure angles accurately using different pattern blocks.</p>	<ol style="list-style-type: none">1. Watch Mrs. Karimi's Video on measuring angles using pattern blocks.2. Watch video Khan Academy Acute, right, & obtuse angles (video)3. Complete the questions on the Google Form about angles.	<p>Complete the questions on the Google Form about angles. When you are done, hit submit and it will automatically go to your teacher.</p>

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Practice Multiplication or Division Facts	Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	
<p>Wednesday: Angle measurement with a protractor</p> <p>Today your mission is to explore the relationship between angles, lines and shapes and how to use a protractor. You will be successful if you can practice using a protractor.</p> <p>Practice Multiplication or Division Facts</p>	<ol style="list-style-type: none"> 1. Listen online to the story, Sir Cumference and Great Knight of Angleland 2. Watch video: how to use a Protractor 3. Practice and try: Use the paper protractor linked here: Printable Protractor or a real one if you have one at home. Try measuring angles on some items at your home such as the corner of a piece of paper, the hands on a clock, or draw some on a piece of paper and measure them. Remember today is day 1 so we are just trying to get used to this new measurement tool. <p>Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.</p>	There is no work to send me, but write me your comments via Google Classroom to see how successful you were measuring around your house. Remember today may be a YET day.
<p>Thursday: Measuring with a protractor</p> <p>Today your mission is to practice angle measurement using a protractor. You will be successful if you can read a protractor OR measure using a protractor.</p> <p>Practice Multiplication or Division Facts</p>	<ol style="list-style-type: none"> 1. Watch this video or read this page. 2. Read the correct angle measure on the Home Connections pages. HC 93, 94. Then, check your work here. 3. Complete Student Book pages 176, 177 Use the Printable Protractor. <p>OPTIONAL: Using a Protractor - Online https://mrnussbaum.com/angle-invaders-online-game</p>	Complete student book pages 176 and 177. Use the printable protractor. Submit your work to be evaluated by your teacher. You can do your work on notebook paper, or print out the student book sheets, take a picture or scan, and send it to your teacher via Google Classroom.

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	Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	
Friday: No School	Some fun geometry activities if you want! Geoboard Angle Invaders Tangrams Measuring Angles	

Week criteria for success (attach student checklists or rubrics):

1. I can identify types of angle as acute, right, obtuse or straight.
2. I can measure angles using a protractor.
3. I can draw or construct angles (45, 90, 120 degrees)

Supportive resources and tutorials for the week (plans for re-teaching):

Types of Angles Song

Measuring angles review (article) | Angles

More ways to use a protractor Khan Academy

Khan Academy using a protractor to measure

Constructing angles review (article) Khan Academy using a protractor to draw angles

Using a Protractor - Online

MATH at HOME Bridges link for fun daily math activities, collections of practice pages, family games, and online games. . No login or registration required.