

Grade 4

Distance Learning Module 4: Week of: April 20 – 24

Mathematics - Modified from [Unit #5 - Geometry and measurement: We Believe in Angles](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: This week, students will extend their work with angles and explore attributes of polygons.

Vocabulary: line, parallel, perpendicular, line of symmetry, equilateral triangle, isosceles triangle, rectangle, rhombus, right angle, scalene triangle, square, symmetry, line segment, parallelogram, polygon, quadrilateral, trapezoid, congruent

line: a set of connected points that continues in both directions without end (if it has two endpoints it is a line segment, and if it has one endpoint and continues in one direction without end, it is a ray)

parallel: always the same distance apart

perpendicular: intersecting at right angles

line of symmetry: a real or imaginary line that divides a shape into two mirror images

equilateral triangle: a triangle with all sides the same length

isosceles triangle: a triangle with exactly 2 congruent sides

rectangle: a two-dimensional (flat) shape with two pairs of parallel sides (4 sides total) and 4 right angles

rhombus: a two-dimensional (flat) shape with 4 congruent sides

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

scalene triangle: a triangle whose sides are all of different lengths

square: a two-dimensional (flat) shape with 4 congruent sides and 4 right angles

line segment: the set of all points between two endpoints

parallelogram: a two-dimensional (flat) shape with 4 sides, with both pairs of opposite sides parallel

polygon: a closed two-dimensional (flat) shape with 3 or more sides

quadrilateral: a two-dimensional (flat) shape with 4 sides

trapezoid: a two-dimensional (flat) shape with 4 sides, exactly 1 pair of which are parallel

congruent: of the same shape and size

Skills:

- Analyze and identify angles based on their properties.
- Analyze and identify parallel and perpendicular lines based on their properties.
- Analyze and identify polygons based on their properties.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>Monday: Triangles Today your mission is to identify types of triangles by focusing on their angles and sides. You will be successful if you can name each type of triangle and each type of angle (acute, right and obtuse angles) inside.</p> <p>Practice Multiplication or Division Facts</p>	<ol style="list-style-type: none">1. Watch this Video about triangles.2. Read SB 187 - Focus on Triangle section3. Complete the Triangle Worksheet and then check your answers. You do not need to turn this in.4. Complete the problems on the Google Form about triangles.5. You may want to listen to this Triangle song <p>Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.</p>	<p>Complete the problems on the Google Form and hit submit. Your answers will go straight to me.</p>
<p>Tuesday: Quadrilaterals</p>	<ol style="list-style-type: none">1. Watch this video on quadrilaterals.2. Read SB 187 - Focus on the	<p>Complete the problems on the Google Form and hit submit. Your answers will go straight</p>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>Today your mission is to identify types of quadrilaterals by focusing on their angles and sides.</p> <p>Practice Multiplication or Division Facts</p>	<p>quadrilateral section</p> <p>3. Complete the problems on the Google Form about quadrilaterals.</p> <p>Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.</p>	<p>to me.</p>
<p>Wednesday: Quadrilaterals, Pentagons and Hexagons</p> <p>Today your mission is to identify types of quadrilaterals, pentagons and hexagons by focusing on their angles and sides.</p> <p>Practice Multiplication or Division Facts</p>	<ol style="list-style-type: none"> 1. Watch this video about quadrilaterals. 2. Using the MLC Pattern Block App, create a design that uses: <ul style="list-style-type: none"> ● 1 hexagon ● 2 trapezoids ● 3 equilateral triangles ● 4 rhombuses ● 3 squares <p>Take a picture or screenshot of your design and share with me on Google Classroom.</p> <p>Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.</p>	<p>Take a picture or screenshot of your pattern block design and share it with me on Google Classroom.</p>
<p>Thursday: Polygon Identification</p> <p>Today your mission is to identify types of triangles, quadrilaterals, pentagons and hexagons by focusing on their angles and sides.</p> <p>Practice Multiplication or Division Facts</p>	<ol style="list-style-type: none"> 1. Label the shape names on these Polygon Cards. Check your answers here. 2. Watch this video. 3. Now, sort some of the polygon cards into this venn diagram by creating two different categories of your own. <p>Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact</p>	<p>Share a picture of how you sorted the shapes or fill out this Google Form regarding how you created your venn diagram shape sort.</p>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>Friday: Today your mission is to show what you know about polygons and their specific attributes.</p> <p>Practice Multiplication or Division Facts</p>	<p>Fluency Practice Options for ideas.</p> <ol style="list-style-type: none"> 1. Complete the Geometry Checkpoint. 2. OPTIONAL when finished, play one of these games: Triangle Splat - Geometry: Math Games Quadrilateral Shapes - Geometry: Math Games Line Splat - Geometry: Math Games <p>Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.</p>	<p>Complete the Geometry Checkpoint 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.</p>

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

- I can define a polygon.
- I can identify triangles by their side lengths and angle types.
- I can identify specific quadrilaterals (square, rectangle, parallelogram, rhombus, trapezoid).
- I can define and identify specific polygons based on their attributes.

Enrichment activities:

A True Matherpiece: In this activity, you will view a variety of art work. Choose one where you can identify a variety of the geometric terms and concepts that you have been learning. You will be successful if you can analyze and identify at least 5 geometry words - including lines, angles and shapes.

Polygon Riddles: Use the Polygon Cards from Thursday to solve these polygon riddles. When you are finished, here's the answer key.

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

Polygon Bingo

The Polygon Song

The Greedy Triangle by Marilyn Burns

Triangle Sorting Activity

Polygon Sorting Activity

Quadrilateral Properties

Identifying Quadrilaterals

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