

Geometry

Quarter 3 Unit 5: Congruent Triangles



"Intelligence is the ability to adapt to change." -Stephen Hawking

overview

In the previous unit, we learned new definitions for what it means for shapes to be congruent or similar. In this new unit, we will continue to use those definitions and further expand them to triangles.

guiding question 5: What are the properties of triangles and how can we use them in the real life?

lessons

Monday 1/21 Tuesday 1/22	Career Research
Thursday 1/24 Friday 1/25	<p>5.1 Angles of Triangles</p> <p>Objectives: Students will:</p> <ul style="list-style-type: none"> • classify triangles by sides and angles • find interior and exterior angle measures of triangles <p>Vocabulary: interior angles, exterior angles, corollary to theorem</p> <p>Practice Set: 5.1 Practice A</p>
Monday 1/28 Tuesday 1/29	<p>5.2 Congruent Polygons</p> <p>Objectives: Students will:</p> <ul style="list-style-type: none"> • identify and use corresponding parts • use the Third Angles Theorem <p>Vocabulary: corresponding parts</p> <p>Performance Task:</p> <p>Practice Set: 5.2 Practice A</p>
Wednesday 1/30 Thursday 1/31	<p>5.3 Proving Triangle Congruence</p> <p>Objectives: Students will:</p> <ul style="list-style-type: none"> • use the Side-Angle-Side (SAS) Congruence Theorem • will solve real-life problems <p>Performance Task:</p> <p>Practice Set: 5.3 Practice A</p>
Monday 2/4 Tuesday 2/5	<p>5.4 Equilateral and Isosceles Triangles</p> <p>Objectives: Students will:</p> <ul style="list-style-type: none"> • use the Base Angles Theorem • use isosceles and equilateral triangles <p>Vocabulary: legs, vertex angle, base, base angles</p> <p>Practice Set: 5.4 Practice A</p>
Thursday 2/7 Friday 2/8	<p>Quiz: 5.1- 5.4 Quiz</p> <p>5.5 Proving Triangle Congruence by SSS</p> <p>Objectives: Students will:</p> <ul style="list-style-type: none"> • use the Side-Side-Side (SSS) Congruence Theorem

	<ul style="list-style-type: none"> • use the Hypotenuse-Leg (HL) Congruence Theorem Vocabulary: legs, hypotenuse Practice Set: 5.5 Practice A
Monday 2/11 Tuesday 2/12	5.6 Proving Triangle Congruence by ASA and AAS Objectives: Students will: <ul style="list-style-type: none"> • use the ASA and AAS Congruence Theorems Practice Set: 5.6 Practice A
Thursday 2/14 Friday 2/15	5.7 Using Congruence Objectives: Students will: <ul style="list-style-type: none"> • use congruent triangles • prove constructions Practice Set: 5.7 Practice A Task: Hand Glider Challenge
Monday 2/18 Tuesday 2/19	5.8 Coordinate Proofs Objectives: Students will: <ul style="list-style-type: none"> • place figures in a coordinate plane • write coordinate proofs Vocabulary: coordinate proof Practice Set: 5.8 Practice A Task: Continue Hand Glider Challenge
Thursday 2/21 Friday 2/22	Vocab Due today Unit 5 Assessment Test out Hand Gliders

Assignment Guidelines:***Individual Work***

Vocabulary: (Create a Graphic Organizer, Mind Map, or Flash Cards for the vocab words of each section.)

- Due on the day of the Assessment

Practice Sets: I will provide you with a copy of the practice set in class **OR** you can find the pdf form on Google Classroom. You must complete the whole set and include a a reflection for full credit.

- Due the class after it is assigned
- Note: Late assignments are subject to 25% penalty. Assignments older than two weeks will not be accepted.

Warm Ups: Estimation180.com in class the first five minutes of class.

Group

Tasks: Due as set by deadline