

Geometry

Week of Nov 28, 2023

General Class Periods 4&5

Weeks Overview

Last Week

Monday: Makeup Day---mainly TEST Quiz on Triangles basic terms, angle calculations, side angle relationships.

Tuesday: Puzzle Pumpkin with lines and triangles.

Wednesday: Puzzle Turkey with code from problems off parallel lines and angles solving

BREAK for Thanksgiving and Teacher Inservice on Tuesday

*****This Week*****

Wednesday: Drawing Triangles from 3 pieces of information--- adjusted material from sections 5.3, 5.5, and 5.6

- Use site and online document for making screen shots of work from site
- <https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Congruence-Theorems/>

Thursday: Worksheet 5.5 & 5.6 Puzzletime complete as notes as teacher led

Watch video: <https://www.youtube.com/watch?v=vGuiy7NnJIM&t=191s>

Students complete practice from Kuta software pages on SSS, SAS, ASA, and AAS Congruence

Friday: - Worksheet Set from “red” book complete - students work in small groups.

3 sections from chapter 5 on TRIANGLE Congruence (3,5,6)

Geometry Lesson 5.3: Proving Triangle Congruence by SAS

Essential Question: What can you conclude about two triangles when you know that two pairs of corresponding sides and the corresponding included angles are congruent?

Lesson Objective(s): Students will use the Side-Angle-Side (SAS) Congruence Theorem.

Students will solve real-life problems.

Previous Learning: Students are familiar with congruent figures. They have learned that all pairs of corresponding parts must be congruent in order to show figures are congruent.

CC State Standards

HSG-CO.B.8
HSG-MG.A.1

CC Mathematical Practice Focus

MP3, MP5

Geometry Lesson 5.5 – Day 1: Proving Triangle Congruence by SSS

Essential Question: What can you conclude about two triangles when you know the corresponding sides are congruent?

Lesson Objective(s): Students will use the Side-Side-Side (SSS) Congruence Theorem.

Students will use the Hypotenuse-Leg (HL) Congruence Theorem.

Previous Learning: Students previously proved triangles congruent using the SAS Congruence Theorem. The terminology and notation should be familiar.

New Vocabulary: legs, hypotenuse

Previous Vocabulary: congruent figures, rigid motion

CC State Standards

HSG-CO.B.8
HSG-MG.A.1
HSG-MG.A.3

CC Mathematical Practice Focus

MP3, MP5

Geometry Lesson 5.6 – Day 1: Proving Triangle Congruence by ASA and AAS

Essential Question: What information is sufficient to determine whether two triangles are congruent?

Lesson Objective(s): Students will use the ASA and AAS Congruence Theorems.

Previous Learning: Students previously learned how to prove triangles congruent using SAS, SSS, and HL. The terminology and notation should be familiar.

Previous Vocabulary: congruent figures, rigid motion

CC State Standards

HSG-CO.B.8

CC Mathematical Practice Focus

MP3, MP5