CP Geometry

Weeks Dec 10-22,2023

Week Dec 11-15

Monday - Report to Mrs. Iorio's studyhall room to do a "drawings" of triangles lab

Tuesday - Complete handout packet of congruent triangles sets

Wednesday - Review drawings and congruent triangle sheets and start student journal pages of notes

Thursday - Continue work from student journal on proofs with congruent triangle and start bigideasmath assignments

Friday - Lesson on indirect measurements with CPCTC and complete bigideasmath.com online assignments

Week Dec. 18-22   depending on Dec 15 Test maybe pushed to Wed.

Monday - Review online assignments and complete discuss test on congruent triangles.

Tuesday - Test on Congruence in Triangles with applications

Wednesday - Discuss Tessellations and make wrapping paper with a tessellation pattern

Thursday -Makeup day

Friday - Christmas Activities with an early dismissal

Triangle Congruence by SSS, SAS, ASA, AAS, or HL

ASSESSMENT ANCHOR

G.1.3   Congruence, Similarity, and Proofs

Anchor Descriptor		Eligible Content	
G.1.3.1	Use properties of congruence, correspondence, and similarity in problem-solving settings involving two- and three-dimensional figures.	G.1.3.1.1	Identify and/or use properties of congruent and similar polygons or solids.
		G.1.3.1.2	Identify and/or use proportional relationships in similar figures.

Anchor Descriptor		Eligible Content	
G.1.3.2	Write formal proofs and/or use logic statements to construct or validate arguments.	G.1.3.2.1	Write, analyze, complete, or identify formal proofs (e.g., direct and/or indirect proofs/proofs by contradiction).

Triangles need 3 components in the order of either:

- Side-Side-Side
- Angle-Side-Angle
- Angle-Angle-Side
- Side-Angle-Side
- Hypotenuse-Leg as right triangle

CPCTC: Congruent Parts of Congruent Triangles are then Congruent also.

Monday Dec 11:   Describing Triangles

Uses this site:

Students will draw to scale each triangle

> AB = 4 cm,
> AC = 4 cm,
> Angle B = 40°

based on given conditions such as

- A (one) triangle may exist
- Multiple non-congruent triangles may exist and there need to be shown at least 2.
- Or NO triangle can be determined.

Congruence in Triangles:

Tuesday- **Dec 12**: Packet complete pages on congruence in triangles from Kuta

- Watch video: https://www.youtube.com/watch?v=vGuiy7NnJlM&t=191s

SSS SAS ASA AAS Congruence https://www.youtube.com/watch?v=KCWCFERV3jE
SSS SAS Congruence   https://www.youtube.com/watch?v=tCRK0CzL-Tc
                          https://www.youtube.com/watch?v=h3IBhWJF0Kw

Dec 13: Student Journal

- 5.3 Section   Pg 136-137
- 5.5 Section   Pg 146-147
- 5.6 Section   Pg 151-152

Continue -

Thurs Dec 14: Finish work from student journal and start bigideasmath.com assignments

5.3 Assignment - darkened problems

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15*	16	17*	18	19*	20
21*	22	23	24	25	26	27*	28	29	30
31	32	33	34	35					

Continue Thursday Dec 14

5.5

5.6

Friday Dec 15:   CPCTC

Use Student Journal for applications with congruent triangles

Pg 153-157

Congruent Parts of Congruent Triangles are Congruent

Is used in indirect measurements as 3 items of triangle is in the setup of 2 congruent triangles and then measure only one triangle to find the other measurements.

Complete online

1	2	3*	4	5*	6	7*	8	9*	10
11*	12	13*	14	15	16	17*	18	19	20
21	22	23	24	25					

Next Week: Test and Tessellation Project

REoccuring pattern

Start with a square

Cut out side piece and move for

A reflection, rotation, translation

Color piece with a face, etc and repeat to make a pattern