Lesson Plan Template

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Grade: 10			Subject: Geometry	
Materials: Pencil, paper			Technology Needed: Laptop/phone	
Materials: Pencil, paper Instructional Strategies: Direct instruction Peer teaching/collaboration/ Guided practice cooperative learning Socratic Seminar Visuals/Graphic organizers Learning Centers PBL Lecture Discussion/Debate Technology integration Modeling Other (list) Modeling Standard(s) HS.G-SRT.5 – Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures Objective(s) By the end of this lesson, the students will be able to: 1. Define what congruence is/what makes two shapes congruent 2. Determine if two shapes are congruent 3. Use the Reflexive, Symmetric, and Transitive properties of congruence Bloom's Taxonomy Cognitive Level: Comprehension and Application				
			Visual: The students will watch and follow along with the examples that we go through as a class. Kinesthetic: The students will be allowed to move to group up with their partners for the assignment. Interpersonal: The students will be placed in small groups to work through and discuss the assignment they are given at the end of class.	
Classroom Management- (grouping(s), movement/transitions, etc.) The kids will be in a large group setting for the around half of the class period. They will then use their turn-and-talk partner for discussions and/or part of the assignment.			Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) The students will be expected to bring their school laptop/phone, a pencil and notebook to class. They will also be expected to be fully engaged throughout the lesson. When the students get in their groups for their discussions/assignments, they are expected to work together and participate to the absolute best of their ability so one person is not doing the entire assignment.	
Minutes		Procedures		
25 Set-	Procedures Set-up/Prep: Pull up PowerPoint or Word document if there is a SmartBoard or projector available, otherwise just making sure the marker/chalk board is clean and having something to write with. I will also need to create the Kahoot.			
10 Enga	age: (opening activ	ity/ anticipatory Set – access prior le	earning / stimulate interest /generate questions, etc.)	

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	on their ideas. If they were way off, I would use questions to would specifically use questions that relate to what it mean definition of being similar and how there could be any conn	r know about being congruent. We would then have a short discussion o try and lead them to answers I would want them to give essentially. I is to be similar and see if we could draw any conclusions from the sections there. For example, a connection is that congruence plays off of t congruent triangles are the same shape AND the same size. I would o from there.			
25	Explain: (concepts, procedures, vocabulary, etc.) First, I will go through the notes that each student is given. We will start by filling in the missing portion for the reflexive property. I will relate this to the reflection transformation that they learned a few weeks ago. Basically, just by saying that whatever is on one side must also be on the other side. Next, we will fill in the symmetric property box. For a relation here, I will use addition in general. For example, 3+5 is the exact same thing as 5+3. Then, we will fill out the transitive box. This box we will break down as a group and discuss that since side AB and side EF both equal or are congruent to side CD, then they must be equal or congruent to each other. We will then go through some examples together in class. The questions will cover determining which property is presented. Next, we will move on to how we know if triangles are congruent. To do this, we will define what corresponding parts are and what the actual definition for congruence really is. Next, we will jump into how to find corresponding parts. We will fill in the first example box together. Then, using the first example we will go through another example where we must list all of the congruent parts of the triangle on our own. After this, we will do one more example of listing all of the corresponding parts of the triangle and then actually stating if the triangle is congruent by writing a congruence statement. Next, we will use the properties of congruent triangles to obtain information from one triangle to the next. I will then have the students go through one of the checkpoints in their notes on their own, giving them roughly 3-5 minutes to do the examples. We will then walk through the last examples as a group which involve identifying corresponding congruent parts of a triangle and then determining if the triangles are congruent.				
15	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) *BASED ON TIME*(If there is enough time, we will go through this Kahoot as a class. If not, they will receive their homework). After the examples are gone through together as a group, we will continue to practice as a group by doing a Kahoot together. This will be a short ten question Kahoot. In the Kahoot, they will practice very similar questions to the examples from their notes. They will be allowed to reference their notes.				
5	5 Review (wrap up and transition to next activity): To wrap up, I will assess the Kahoot to see if there were any areas that everyone really struggled in and what through any pointers that may need to be reviewed. I will then ask the class if they have any clarifying questions. Once all of those questions are answered, I will allow them to start working on their homework assignment. I will make sure to walk around while they are completing this so if any students had questions, but didn't want to ask in front of the group, that they get their questions answered and leave the classroom feeling confident with the material. I will also encourage the students to help each other. From earlier in the year, they will understand that helping each other does not constitute as giving each other answers, but instead making sure everyone is giving input and receiving help where needed. I will make sure to monitor this as I am walking around the classroom and providing help to students as well.				
Progress check- in strate, I will be fi during this when exar homework students w better und of the com Consider As a back- the Kahoo have them affect how individuall walking ar how well t be able to they are st	Assessment: (linked to objectives) s monitoring throughout lesson- clarifying questions, gies, etc. formatively assessing the students in a couple different ways is lesson. The main one will be walking around the classroom mples are present or while they are working on their k at the end as well. I will also formatively assess the when they complete the Kahoot activity. I will be able to derstand where the students are at with their understanding cept. ration for Back-up Plan: up plan, if I can tell that the students are struggling during t game, I will have groups ready for them to get into and n discuss with their groups before they answer. This could well I am able to formatively assess them individually while round during their homework. I will also know based upon the students do on their homework. Bowever, if I think till struggling after this, I will actually go through some of work problems as examples with the entire class. This could	Summative Assessment (linked back to objectives) End of lesson: The end of the lesson, the students will complete their homework assignment. If applicable- overall unit, chapter, concept, etc.: At the end of the chapter, they will have questions on their test regarding congruence and properties of congruence as well.			

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have to be done at the beginning of the next class period, which would most likely just be the opening activity for the next day with a potential work day for the homework.

Reflection (What went well? What did the students learn? How do you know? What changes would you make?): I definitely should have gotten the students more engaged with the lesson right away. I just jumped right into the notes and it took the students a little while to become involved and answer questions. I thought my pacing was good and allowed for the students to take proper notes. I do need to work on making sure more students are getting involved in answering questions so the class isn't so dominated between one or two students. The students loved the Kahoot and the game made it fairly easy to see what topics needed to be revisited. By the end of the Kahoot, most of the students had the hang of the concepts. This allowed me to help the other students one-on-one in their assignment if they were still struggling with the concepts.

Link to the Kahoot: https://create.kahoot.it/details/e9a925c3-0d9b-4b6d-b3ce-f1e2e1f61cf9