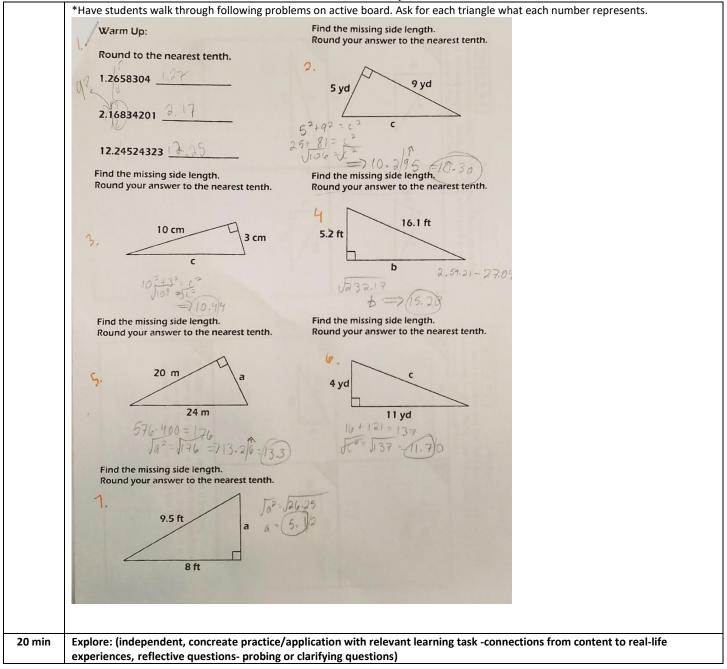
Lesson Plan Template

	Lesson Pla	n Template
Grade: 8		Subject: 8 th Grade Math
Materials: Worksheets, Markerboards		Technology Needed: Active Board
 Direct Guide Socrat Learni Lectur 	ology integration 🛛 Modeling	Guided Practices and Concrete Application: Large group activity Hands-on Independent activity Technology integration Pairing/collaboration Imitation/Repeat/Mimic Simulations/Scenarios Other (list) Explain: Explain:
Standard(s) 8.G.7 Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real world and mathematical problems in two and three dimensions. Objective(s)		Differentiation Below Proficiency: Pairing/Collaboration Different worksheets that have same problems for checking answers, but one is at a lower level. Above Proficiency: There is a more challenging partner worksheet. Also able to problem solve themselves through new application problems Approaching/Emerging Proficiency: Work together to solve both upper and lower level questions. Modalities/Learning Preferences: Groupings pre-made to accommodate different learners
 I CAN <i>recall</i> what it means to round to the nearest tenth and hundredth. I CAN <i>identify</i> the short leg, long leg, and hypotenuse of a right triangle. I CAN <i>represent</i> given data in Pythagorean Theorem and find the missing side. I CAN <i>analyze</i> a word problem to find the missing length using Pythagorean Theorem. Bloom's Taxonomy Cognitive Level: Knowledge, Understanding, 		
Students al both works partner wo	Management- (grouping(s), movement/transitions, etc.) ble to group themselves while working with a partner on sheets. One student from each group will grab a #1 and #2 orksheet from the front of the room to work on together. hed, they will hand it and grab the next homework	Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) Students grab calculator and markerboards when enter the room. Students work together quietly when working on exercises.
Minutes	Procedures	
5 min 2 min	Set-up/Prep: Cut up worksheets Turn on projector Put table in front of rooms for students to grab. Engage: (opening activity/ anticipatory Set – access prior I Remember the quiz from yesterday? You all did so well! Jus	st remember when we are looking for side a and b (the short and long
10-12 min	leg) that we must subtract! We are going to now take that up a level and work on some level 3-4 type questions. Explain: (concepts, procedures, vocabulary, etc.) Let's warm up what it means to round. Rounding if it is >5, we round up. If 0-4 we stay the same. So if we see round to the nearest tenth what does that mean? Look at the example 1.2658304. We are looking at the tenth spot, 10 has 1 zero so that means that we want only one number after the decimal. We will look at only the 2 places then to determine what our one decimal should be. 1.2 [658304 So hear we only want the spot where the 2 is at so we will look at the 6 to determine what to do with the 2. Is 6>5. YES! So we round up! Our answer is 1.3. Now let's try 2.16834201 2.1 [7834201 look at 7 so we round up=2.2 Let's work through one last example. 12.2452432312.3 Now we will be looking at problems using the Pythagorean theorem that we will have to round.	

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The masarg length. Show your work, and round your more stop the nearest tenth one stop length. Show your work, and round your more stop the nearest tenth one stop length. Show your work, and round your more stop tenth one stop length. Show your work, and round your more stop tenth one stop of the lodder is leaning up against a building The top of the lodder reaches the wall at a height of 50 feet. New for is the bottom of the lodder of the lod	a up against a building. The g up against a building. The g up against a building. The building is the todder? How long is the todder? How long is the todder? How long is the todder?
Formative Assessment: (linked to objectives) Progress monitoring throughout lesson- clarifying questions, check- in strategies, etc. By having open communication, I can gage if they are catching on by their responses. I also ask if they would like to go through more examples or not at the end. There are an additional 2 questions on the slide show.	Summative Assessment (linked back to objectives) End of lesson: Homework assessment has practice problems for everything covered in this lesson. It is also building off of previous knowledge If applicable- overall unit, chapter, concept, etc.: This part of the unit was one of the heights of this standard. It included some higher order thinking as well as putting together some key concepts. This reached a lot of level 4 questions towards this standard.
Consideration for Back-up Plan: I could have them grab whiteboards and give an example problem and walk around to see how they are doing with it.	
	Many of the students took until problem number three to understand g with their partners or even one on one with me. If teaching this lesson eans to round to the nearest 10 th conceptually and why that means one e students really liked the partner activity at the beginning of the lesson. they just say the right answer or tell them what number they got wrong, rest of the steps. Also from their pre-assessment quizzes from the day ure showed them so I emphasized it and tried to explain why each side

corresponds with a particular letter but I would go back in and change the images used in the power point not to have the letters on them. By the end of their partner worksheet and individual questions, they could round accurately and also solve for a particular side of the triangle no matter what side.