Grade: 7th	grade-accelerated	Subject: Mathematics
Materials:	Pencil, Chromebook, notecards, calculator,	Technology Needed: Chromebooks, calculators
	er/loose leaf paper	
Instructional		Guided Practices and Concrete Application:
 Guide Socrat Learni Lectur ✓ Technology 	instructionteaching/collaboration/ cooperative learningd practicecooperative learningtic Seminar✓visuals/Graphic organizersing CentersPBLreDiscussion/DebatenologyModeling	 ✓ Large group activity ✓ Independent activity ✓ Pairing/collaboration ✓ Simulations/Scenarios ✓ Hands-on ✓ Technology integration ✓ Imitation/Repeat/Mimic
-	ration	
 Standards 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. 8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system. Objectives By the end of the lesson, students will be able to -recall from memory what the Pythagorean Theorem is -describe what the Pythagorean Theorem's shows -manipulate a graph and use the Pythagorean Theorem to compute values from said graph Bloom's Taxonomy Cognitive Level: Remembering, Understanding, Analyzing 		 Differentiation Below Proficiency: Students will be able to describe what the Pythagorean Theorem shows and use the formula to calculate different values on the Cartesian Plane with significant help from the teacher. Above Proficiency: Students will be able to describe what the Pythagorean Theorem shows and use the formula to calculate different values on the Cartesian Plane independently as well as extend these concepts with less neat numbers. Approaching/Emerging Proficiency: Students will be able to describe what the Pythagorean Theorem shows and use the formula to calculate different values on the Cartesian Plane independently as well as extend these concepts with less neat numbers. Approaching/Emerging Proficiency: Students will be able to describe what the Pythagorean Theorem shows and use the formula to calculate different values on the Cartesian Plane with minimal help from the teacher. Modalities/Learning Preferences: Visual
<u> </u>	No	
Classroom Management- (grouping(s), movement/transitions, etc.) Students will remain seated in their assigned desks throughout the duration of class and follow proper COVID-19 protocols in regard to social distancing and mask wearing.		Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) Students will conduct themselves respectfully and work in their assigned spots on the activities, asking questions when help is needed in class.
Minutes	Proce	dures
60	Set-up/Prep: Prepare a question for the "My favorite No" activity and have enough note cards for each one per student. Prepare PowerPoint to review concepts of Pythagorean Theorem. Post link to Technology Integration activity or Google Classroom page. Print off at least one piece of graph paper for each student. Entrance Ticket question: Solve for the missing side. 9 cm 12 cm	
15 Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest / etc.) Hand out a notecard to each student upon entering the room, on which we will do the "N Activity. Students will be given 5 minutes to complete the problem, drawing a box around the notecards are collected, and the teacher will quickly sort through the correct and incorrect and incorect and incorect and in		tering the room, on which we will do the "My Favorite No" omplete the problem, drawing a box around their answer. Then will quickly sort through the correct and incorrect answers. The
	board. The teacher will ask, "What do you thir	nost teachable incorrect answer and write it anonymously on the nk I like about or am happy about in this problem?" Then, the he problem is. Then the question of "Where is the mistake in this

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	problem?", allowing students to supplement t where the mistake occurred and how to avoid	he learning of their fellow students. The teacher will then go over this mistake in the future.	
10	 Explain: (concepts, procedures, vocabulary, etc.) We will go over what the Pythagorean Theorem is as a class, asking 1)What is the equation of the Pythagorean Theorem? a² + b² = c² 		
	2)What does the Pythagorean Theorem tell us a right triangle.	about? It shows us the relationship between the side lengths of	
	3) How could we use this is real life? Architecture, Construction, Navigation, Surveying, and more!		
20	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) The students will take out a pencil, calculator, graph paper or loose-leaf paper, and their Chromebook. The students will log onto our Google Classroom Page and clink on this link: <u>https://prairiepublic.pbslearningmedia.org/resource/mket-math-g-mmystery3/mmysterythree/</u> We will explain the directions and work through the first exercise together as a class, then allow the students to work independently or with a partner on the Maritime Mysteries Activity.		
3	Review (wrap up and transition to next activity): The students will clean up their area and pack up the materials in preparation to move to the next class.		
Formative Assessment: (linked to objectives) Progress monitoring throughout lesson- clarifying questions, check- in strategies, etc. Walk around the classroom to monitor students' progress on the "My Favorite No" activity and on the Maritime Mysteries activity, providing additional instruction and help when needed throughout class. Consideration for Back-up Plan: Prepare additional problems involving graphing, the		Summative Assessment (linked back to objectives)End of lesson:Student will showcase their skill throughout the graphing andcalculations from Maritime Mysteries, showing theircomprehension of the Pythagorean Theorem and its uses.If applicable- overall unit, chapter, concept, etc.:The students will take a summative assessment on the standardto ensure their academic progress with this content.	
and/or ext Reflection The stude		? How do you know? What changes would you make?): Iditional promptings with a few different phrases on the game, the hat is more applicable to life.	