

Uncharted: Day 1

Lesson objectives:		
<ul style="list-style-type: none"> Define a right triangle and its parts Understand the Pythagorean Theorem and apply it See how the Pythagorean Theorem can be used practically in everyday life 		
Assessment:		
<ul style="list-style-type: none"> Exit questions Students will turn in their worksheet 		
Key Points:		
<ul style="list-style-type: none"> This lesson introduces students to the fundamental concept of the Pythagorean Theorem. 		
Component:	Teacher & Student Actions	Materials
Warm-Up or Hook [5 min]	<ul style="list-style-type: none"> Do Now 	Day 1 Handouts or blank paper
Introduction of new material [15 min]	<ul style="list-style-type: none"> Teacher will introduce the Uncharted initiative and distribute Note to Students Teacher will review right triangles and introduce the concepts of the Pythagorean Theorem for solving the length of triangle sides 	Slides Note to Students
Guided Practice [5 min]	<ul style="list-style-type: none"> Pythagorean Theorem Practice 	
Independent Practice [20 min]	<ul style="list-style-type: none"> Students will work independently or in groups to complete the worksheet on the Pythagorean Theorem 	Day 1 Handouts Calculators Answers in slides
Closing [5 min]	<ul style="list-style-type: none"> Exit Ticket Ask students to complete their Daily Learning Log 	Day 1 Handouts Daily Learning Logs
Differentiation Considerations:		
<ul style="list-style-type: none"> Support during worksheet activity 		

Standard(s):

Common Core Standards

- **CCSS.Math.Content.8.G.B.6** Explain a proof of the Pythagorean Theorem and its converse.
- **CCSS.Math.Content.8.G.B.7** Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.
- **CCSS.Math.Content.8.G.B.8** Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.
- **CCSS.MATH.PRACTICE.MP1** Make sense of problems and persevere in solving them.
- **CCSS.MATH.PRACTICE.MP2** Reason abstractly and quantitatively.
- **CCSS.MATH.PRACTICE.MP3** Construct viable arguments and critique the reasoning of others.
- **CCSS.MATH.PRACTICE.MP4** Model with mathematics.
- **CCSS.MATH.PRACTICE.MP5** Use appropriate tools strategically.
- **CCSS.MATH.PRACTICE.MP6** Attend to precision.
- **CCSS.MATH.PRACTICE.MP7** Look for and make use of structure.
- **CCSS.MATH.PRACTICE.MP8** Look for and express regularity in repeated reasoning.