

Uncharted: Day 2

Lesson objective:		
Students will be able to: <ul style="list-style-type: none"> Recognize the aspects of a coordinate plane and solve for lengths between points using the Pythagorean Theorem Understand the Distance Formula as a derivative of the Pythagorean Theorem Solve for distances using the Distance Formula and coordinate 		
Assessment:		
<ul style="list-style-type: none"> Exit questions Students will turn in their worksheet 		
Key Points:		
<ul style="list-style-type: none"> In this lesson, Students will learn the concept of the Distance Formula and understand it as a derivative of the Pythagorean Theorem. 		
Component:	Teacher & Student Actions	Materials
Warm-Up or Hook [5 min]	<ul style="list-style-type: none"> Do Now 	Day 2 Handouts or blank paper
Review [5 min]	<ul style="list-style-type: none"> Teacher will review key concepts from lesson 1 	Slides
Introduction of New Material [15 min]	<ul style="list-style-type: none"> Teacher will show how the pythagorean theorem can be used for solving distance, review elements of a coordinate plane, and introduce the distance formula Teacher will play a short Khan Academy video reviewing the distance formula 	Slides
Guided Practice [15 min]	<ul style="list-style-type: none"> Teacher will work through an example using the distance formula 	Slides
Independent Practice [15 min]	<ul style="list-style-type: none"> Students will work independently or in groups to complete the distance formula worksheet If time permits, the class will review their answers to the worksheet 	Day 2 Handouts Answers in slides Calculators

Closing [5 min]	<ul style="list-style-type: none"> Exit Ticket Ask students to complete their Daily Learning Log 	Daily Learning Logs
Differentiation Considerations:		
<ul style="list-style-type: none"> Support during worksheet activity Working in groups during the worksheet activity, if necessary 		
Standard(s):		
Common Core Standards <ul style="list-style-type: none"> CCSS.MATH.CONTENT.HSG.GPE.B.7 Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula. CCSS.MATH.CONTENT.HSG.GPE.B.4 Use coordinates to prove simple geometric theorems algebraically. 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. 		