

# Prove the Pythagorean Theorem (Standard here)

**SUBJECT**

Math

**TEACHER**

Odileke

**GRADE**

8th

**DATE**

2021

## LEARNING GOAL

Students can prove the Pythagorean Theorem by using triangles and squares and apply this understanding to solve right triangle problems that have a missing side .

**FOCUS**

**CONTENT**

**RESOURCE**

<p><b>PROBLEM OF THE DAY/POLL QUESTION</b> (2-3 MINS)</p>	<p>Find the Square of each of these numbers: 5, 8, 12, and 10.</p>	<p>Open-ended feature Math Textbook pg. 122</p>
<p><b>INQUIRY TASK AND DISCUSSION</b> (8-10 MINS)</p>	<p>How can we prove the Pythagorean Theorem? What are some reasons why a person may want to find the missing side of a triangle?</p>	<p>Draw It Break Out Rooms with Task and roles Sample triangle</p>
<p><b>DIRECT INSTRUCTION</b> (5 MINS)</p>	<p>Play Nearpod Original Interactive Video Pythagorean Theorem 4 minutes with embedded student questions</p>	<p>Interactive Video Prepare 3 discussion questions</p>
<p><b>PRACTICE/ APPLICATION</b> (5-7 MINS)</p>	<p>Complete 2-3 problems with a triangle that has one missing side</p>	<p>Draw It</p>
<p><b>CHECK FOR UNDERSTANDING</b> (5 MINS)</p>	<p>Two-word problems with one missing side to solve and missing vocabulary term in a comprehension sentence</p>	<p>Quiz Tool</p>
<p><b>DIFFERENTIATION OPTION</b> (8-10 MINUTES)</p>	<p>Use the Nearpod lesson Prove the Pythagorean Theorem Using Squares and Triangles by LearnZillion</p>	<p>Adjust lesson types to Challenge, Practice, and Reteach Ensure rigor and tasks can be completed within 8 minutes</p>
<p><b>ASSIGNMENTS/ HOMEWORK/ QUESTIONS</b> (2-3 MINS)</p>	<p>Assign a link to online textbook, LMS assignment, or Teacher created form for more practice.</p>	<p>Google Form Google Classroom Assignment</p>

