

Goal:	Evidence
Students will apply understanding of a geometric relationship involving right triangles to solve a real world problem.	Students will determine if the Pythagorean Theorem can be used in a real world situation and apply it to solve problems.

I understand:	Evidence
The algebraic form of the Pythagorean Theorem relates to a geometric model.	I can write an algebraic model using the Pythagorean Theorem based on a geometric model .
How to solve applied problems using the Pythagorean Theorem.	I can solve applied problems using the Pythagorean Theorem.

I can:	IXL
<ul style="list-style-type: none"> <li><input type="checkbox"/> Find the area of figures including “tilted squares” that are drawn on dot paper.</li> <li><input type="checkbox"/> Find the diagonal distance between points on a coordinate plane.</li> <li><input type="checkbox"/> Find the missing side of a right triangle by using the Pythagorean Theorem.</li> <li><input type="checkbox"/> Use the Pythagorean Theorem to determine whether a triangle is a right triangle or not.</li> <li><input type="checkbox"/> State the relationship between the area and side length of a square and the volume and edge length of a cube.</li> <li><input type="checkbox"/> Find exact and approximate values for square roots and find cube roots of small perfect cubes.</li> <li><input type="checkbox"/> Locate real numbers on a number line.</li> <li><input type="checkbox"/> Identify numbers as rational or irrational.</li> <li><input type="checkbox"/> Write rational numbers as repeating or terminating decimals.</li> <li><input type="checkbox"/> Write repeating or terminating decimal numbers as fractions.</li> </ul>	<p>7th Grade: H.2, I.9-I.10</p> <p>8th Grade: D.4 -D.5, F.14, F.17, F.19 N.4, R.1-R.2, R.4, R.5</p> <p>Algebra 1: F.14-F.16, G.3</p> <p>Geometry: Q.1- Q.2</p>

Looking For Pythagoras	Points Earned	Percent Correct
I can find the diagonal distance between points on a coordinate plane.		
I can find the area of figures including "tilted squares" that are drawn on dot paper.		
I can relate square roots to the side of a square and cube roots to the edge of a cube.		
I can locate real numbers on a number line.		
I can find exact and approximate values for square roots and cube roots of small perfect cubes.		
I can find the missing side of a right triangle by using the Pythagorean Theorem.		
I can use the Pythagorean Theorem to prove whether a triangle is a right triangle or not.		
I can solve applied problems using the Pythagorean Theorem.		
I can write rational numbers as repeating or terminating decimals.		
I can write repeating or terminating decimal numbers as fractions.		
I can identify numbers as rational or irrational.		