

# Lesson Plan

**Names:** Sonora Sheldon

**Subject:** Math

**Grade level:** 8<sup>th</sup> Grade

**Time Limit:** 45 Minutes

**Lesson Title:** Pythagorean Theorem

<b>Standard, Benchmark, Indicator</b>	8.G.8 - Apply the Pythagorean Theorem to determine unknown side lengths in right triangles
<b>Lesson Goal</b>	75% of students are proficient in use of the Pythagorean Theorem
<b>Lesson Objective</b>	Students should know when and how to use the Pythagorean Theorem
<b>Essential Question(s)</b>	<ul style="list-style-type: none"> <li>- Do students understand the difference between legs and hypotenuse?</li> <li>- Are students able to apply Pythagorean Theorem and solve for missing variable?</li> <li>- Do students know who created the Pythagorean Theorem?</li> </ul>
<b>Assessment and Criteria</b>	EdPuzzle Assessment - <a href="https://edpuzzle.com/assignments/5a17a7db641fcb40d47c2543/watch">https://edpuzzle.com/assignments/5a17a7db641fcb40d47c2543/watch</a>
<b>Resources (books, articles, video links, etc.)</b>	Doodle Notes – <a href="http://www.mathgiraffe.com/blog/math-doodle-notes-for-5th-grade-math-through-calculus">http://www.mathgiraffe.com/blog/math-doodle-notes-for-5th-grade-math-through-calculus</a> Assignment – <a href="http://www.mrseteachesmath.com/2017/01/pythagorean-theorem-inb-pages.html">http://www.mrseteachesmath.com/2017/01/pythagorean-theorem-inb-pages.html</a>

	<b>Est. Time of Task</b>	<b>Lesson Activities</b>
<b>Beginning</b>	15 Min.	Use Pythagorean doodle notes to explain the Pythagorean theorem. Use the projector to display notes. Have students follow along with their own doodle note worksheet. Go through notes as a class.
<b>Middle</b>	25 Min.	Have students work in pairs to complete the assignment (four word problems similar to the ones from “Mrs. E Teaches Math”). They should do the problems on a sheet of notebook paper that can be turned in at the end of class.
<b>End</b>	15 Min.	Go through, review, and discuss assignment as a class. Choose groups to explain their work to the rest of the class.

<b>Strategies: What instructional strategies did you utilize in this lesson? (Ex: graphic organizer, cooperative learning, discussion, technology integration, etc.)</b>	<ul style="list-style-type: none"> <li>- Graphic Organizer/Interactive Note-Taking</li> <li>- Cooperative Learning</li> <li>- Class Discussion</li> </ul>
--	---

