

Implementing Common Core Standards

According to the new Common Core Standards students enrolled in high school Geometry course are expected to begin to formalize their geometry experiences from elementary and middle school, using more precise definitions and developing careful proofs. One domain of CCS is Similarity, right triangles, and Trigonometry (G-SRT) and one of its standards is to prove theorems involving similarity (4. Prove theorems about triangles. Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.)

In order to implement this standard, I decided to write this curriculum unit that concentrates around Pythagorean Theorem and different ways that it can be proved and applied in real life problems. Using activities that develop critical thinking skill, I will reveal for my students the magic and fun behind Pythagorean Theorem. They will be able to use their specific learning style and to create accordingly final products that reflect the mastery of this standard.