# CAR Unit Template

## Unit Title: Mathematics – Pythagorean Theorem, Congruence and Similarity – Unit 2 – Module A

**Grade level: Grade 8**

**Timeframe:**

## Essential Questions

## Standards

### Standards (Taught and Assessed):

 **8.G.B 6** Explain a proof of the Pythagorean Theorem and its converse.

 **8.G.B.8** Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.

 **8.G.B.7** Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.

**Key**: Major Cluster Supporting Cluster Additional Cluster

### Highlighted Career Ready Practices and 21st Century Themes/Skills

### Social-Emotional Learning Competencies

## Instructional Plan

Pre-Assessment and Reflection

| **Pre-Assessment** | **Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections** |
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Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

| **SLO – WALT****We are learning to/that** | **Student Strategies** | **Formative Assessment** | **Activities and Resources** | **Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections** |
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| **8.G.B.6 – WALT** the Pythagorean Theorem states that the square of the hypotenuse of a right triangle is equal to the sum of the squares of the other two sides |  |  |  |  |
| **8.G.B.6 – WALT** explain a proof of the Pythagorean Theorem |  |  |  |  |
| **8.G.B.6 – WALT** explain a proof of the converse of the Pythagorean Theorem |  |  |  |  |
| **8.G.B.8 – WALT** apply the Pythagorean Theorem to find the distance between two points in a coordinate system |  |  |  |  |
| **8.G.B.7 – WALT** apply the Pythagorean Theorem to determine unknown side lengths in right triangles in two-dimensional figures |  |  |  |  |
| **8.G.B.7 – WALT** apply the Pythagorean Theorem to determine unknown side lengths in right triangles in three-dimensional figures |  |  |  |  |
| **8.G.B.7 – WALT** apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world problems |  |  |  |  |

Benchmark Assessment 1

| **Benchmark Assessment** | **Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections**  |
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Benchmark Assessment 2

| **Benchmark Assessment**  | **Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections** |
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Summative Assessments (add rows as needed)

| **Summative Assessment**  | **Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections** |
| --- | --- |
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Interdisciplinary Connections

| **Interdisciplinary Connections** | **Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections** |
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