# CAR Unit Template

## Unit Title: Geometry – Geometric Properties and Equations – Unit 3 – Module A

**Grade level:**

**Timeframe:**

## Essential Questions

## Standards

### Standards (Taught and Assessed):

**G.GPE.B.4** Use coordinates to prove simple geometric theorems algebraically. *For example, prove or disprove that a figure defined by four* *given points in the coordinate plane is a rectangle; prove or disprove that the point (1, √3) lies on the circle centered at the origin and containing* *the point (0, 2).*

**G.GPE.B.5** Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point.

**G.GPE.B.6** Find the point on a directed line segment between two given points that partitions the segment in a given ratio.

**G.GPE.B.7** Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.★ (modeling standard)

**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** |
| --- | --- | --- | --- | --- |
| **G.GPE.B.4 - WALT** prove simple geometric theorems algebraically using coordinates  |  |  |  |  |
| **G.GPE.B.5 - WALT** prove the slope criteria for parallel lines |  |  |  |  |
| **G.GPE.B.5 - WALT** use the slope criteria for parallel lines to solve geometric problems |  |  |  |  |
| **G.GPE.B.5 - WALT** prove the slope criteria for perpendicular lines |  |  |  |  |
| **G.GPE.B.5 –** **WALT**use the slope criteria for perpendicular lines to solve geometric problems |  |  |  |  |
| **G.GPE.B.6 – WALT** find the point that is between two given points on a directed line segment that partitions the segment in a given ratio |  |  |  |  |
| **G.GPE.B.7 - WALT** compute perimeter of polygons using coordinates |  |  |  |  |
| **G.GPE.B.7 - WALT** compute areas of rectangles using coordinates |  |  |  |  |
| **G.GPE.B.7 -** **WALT** compute area of triangles using coordinates |  |  |  |  |

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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