# CAR Unit Template

## Unit Title: Mathematics Proportionality and Three-Dimensional Geometric Concepts – Unit 3 – Module B

**Grade level: Grade 7**

**Timeframe:**

## Essential Questions

## Standards

### Standards (Taught and Assessed):

**7.RP.A.2** Recognize and represent proportional relationships between quantities.

c. Represent proportional relationships by equations. *For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as t = pn.*

d. Explain what a point (*x*, *y*) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, *r*) where *r* is the unit rate.

**7.RP.A.3** Use proportional relationships to solve multistep ratio and percent problems. *Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.*

**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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| **7.RP.A.2c – WALT** represent proportional relationships by equations using the constant of proportionality (unit rate) |  |  |  |  |
| **7.RP.A.2d – WALT** explain what a point (*x*, *y*) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, *r*) where *r* is the unit rate |  |  |  |  |
| **7.RP.A.3 – WALT** solve multistep ratio and percent problems using proportional relationships |  |  |  |  |
| **7.RP.A.3 – WALT** solve multistep ratio and percent problems sing proportional relationships involving simple interest and sales tax |  |  |  |  |
| **7.RP.A.3 – WALT** solve multistep ratio and percent problems using proportional relationships involving markups and markdowns |  |  |  |  |
| **7.RP.A.3 – WALT** solve multistep ratio and percent problems using proportional relationships involving gratuities, commissions, and fees |  |  |  |  |
| **7.RP.A.3 – WALT** solve multistep ratio and percent problems using proportional relationships involving percent increase, percent decrease, and percent error |  |  |  |  |

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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