# CAR Unit Template

## Unit Title: Algebra 1 – Quadratic Modeling – Unit 3 - Module A

**Grade level:**

**Timeframe:**

## Essential Questions

## Standards

### Standards (Taught and Assessed):

 **A.APR.A.1** Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.

 **A.SSE.A.2** Use the structure of an expression to identify ways to rewrite it. *For example, see x4 – y4 as (x²)² − (y²)², thus recognizing it as a difference of squares that can be factored as (x² − y²)(x²+ y²).*

 **A.SSE.B.3** Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

a. Factor a quadratic expression to reveal the zeros of the function it defines.

b. Complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines.

**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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| **A.APR.A.1. - WALT** polynomials form a system comparable to the integers |  |  |  |  |
| **A.APR.A.1. - WALT** the sum, difference, and product of two polynomials is a polynomial |  |  |  |  |
| **A.APR.A.1. - WALT** add and subtract polynomials |  |  |  |  |
| **A.APR.A.1. - WALT** multiply polynomials |  |  |  |  |
| **A.SSE.A.2. - WALT** use the structure of an expression to identify ways to rewrite it |  |  |  |  |
| **A.SSE.B.3. - WALT** factor a quadratic expression in order to reveal the zeros of the function it defines |  |  |  |  |
| **A.SSE.B.3. - WALT** complete the square in a quadratic expression to reveal the maximum or minimum value of the function it defines |  |  |  |  |

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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