# CAR Unit Template

## Unit Title: Algebra 1 – Other Nonlinear Graphs and One Variable Statistics – Unit 4 - Module A

**Grade level:**

**Timeframe:**

## Essential Questions

## Standards

### Standards (Taught and Assessed):

 **A.APR.B.3** Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function

 defined by the polynomial.

 **F.IF.C.7** Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more

 complicated cases.★ (modeling standard)

c. Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.

b. Graph square root, cube root, and piecewise-defined functions, including step-functions and absolute value functions.

 **A.REI.D.11** Explain why the *x*-coordinates of the points where the graphs of the equations *y* = *f*(*x*) and *y* = *g*(*x*) intersect are the solutions of the

 equation *f*(*x*) = *g*(*x*); find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive

 approximations. Include cases where *f*(*x*) and/or *g*(*x*) are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.★

 (★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** |
| --- | --- | --- | --- | --- |
| **A.APR.B.3. - WALT** identify the zeros of a polynomial function when suitable factorizations are available |  |  |  |  |
| **A.APR.B.3. - WALT** use the zeros to construct a rough graph of the function defined by the polynomial |  |  |  |  |
| **F.IF.C.7.c - WALT** graph polynomial functions showing end behavior |  |  |  |  |
| **F.IF.C.7.b - WALT** graph square root, cube root, and show key features of the graph |  |  |  |  |
| **F.IF.C.7.b - WALT** graph piecewise-defined functions, including step functions and absolute value functions, and show key features of the graph |  |  |  |  |
| **A.REI.D.11. - WALT** in cases where *f*(*x*) and/or *g*(*x*) are linear, polynomial, absolute value, and exponential, explain why the *x*-coordinate of the point of intersection of graphs of *f*(*x*) and *g*(*x*) is the solution of the equation *f*(*x*) = *g*(*x*) |  |  |  |  |
| **A.REI.D.11. - WALT** in cases where cases where *f*(*x*) and/or *g*(*x*) are linear, polynomial, absolute value, and exponential, find approximate solutions using technology to graph the functions, make tables, and find successive approximations in order to find the solution of the equation *f*(*x*) = *g*(*x*) |  |  |  |  |

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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