Algebra I Level 3   *Modified from [Unit F - Beyond a Straight Line](#)*

Targeted Goals from Stage 1: Desired Results

Content Knowledge: what changing the parameters of $y = ax^2 + bx + c$ does to the graph of the parent function, what is the terminology associated with a parabola

Vocabulary: Parabola, vertex, line of symmetry, x-intercept(s), y-intercept, quadratic standard form, a/b/c parameters

Skills: finding the vertex of $y = ax^2 + bx + c$, finding the axis of symmetry of $y = ax^2 + bx + c$, finding the x and y intercepts of $y = ax^2 + bx + c$

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Introduction to a Parabola	Intro Video	Desmos Activity: HYFS5D
Tuesday: Introduction to a Parabola	Khan Video	Khan Exercise
Wednesday: Introduction to a Parabola	Vocab Word Bank	Google Form - Midweek Check In
Thursday: How to graph $y = ax^2 + bx + c$	Desmos testing Parameters Parameters Worksheet	Worksheet Upload
Friday: How to graph $y = ax^2 + bx + c$	How To Graph Video435	End Of Module Assessment

Week criteria for success (attach student checklists or rubrics):

SWBAT:

- Identify the different parts of a parabola such as a vertex, intercepts, etc.
- Describe how each parameter of quadratic standard form affects how the graph of a parabola moves
- Graph a parabola from quadratic standard form using 3 points

Supportive resources and tutorials for the week (plans for re-teaching):

- Daily Office hours and meetings by appointment
- Rewatch Khan Videos
- Purple Math - This is a website that provides guides notes to students
- Special Ed students can be assigned aligned iXL activities if needed