

Grades 11 and 12

Distance Learning Module 3: Week: April 13<sup>th</sup> – 17<sup>th</sup>

## Mathematics: PCAT - [Unit 3 Functions](#)

### Targeted Goals from Stage 1: Desired Results

**Content Knowledge:** functions can be used for making predictions in math, the domain of a function are the possible inputs for which outputs exist, inverses swap inputs and outputs, how the parameters of a function change the parent function graph

**Vocabulary:** function, inverse function, piecewise function, transformation, interval notation, function notation, symmetry, continuous, domain, range, intercept, inequality, input, output, composition, composite function, parent functions, inverse, reflection, shift, parameter

**Skills:** using interval notation, reading and representing function notation, interpreting characteristics of graphs, graphing and evaluating piecewise functions, graphing inverse functions, find and verify inverse functions, function composition, function transformations

### Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Function Transformations	Desmos Activity: Intro to Transformations	Desmos Activity: Intro to Transformations  Post Desmos Activity Google Form
Tuesday: Function Transformations	Transformations: Shifts and Reflections Video	Shifts and reflections Worksheet (students will upload a photo of their work): PDF Worksheet
Wednesday: Function Transformations	Transformations: With Coefficients Video	Transformations with coefficients Worksheet (students will upload a photo of their work): PDF Worksheet
Thursday: Function Transformations	Optional Live Zoom Review	Combined Transformations/Tool-kit Worksheet (students will upload a photo of their work): PDF Worksheet

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Friday: Function Transformations	Desmos Matching Activity	Mixed Practice Review Worksheet (students will upload a photo of their work): PDF Worksheet

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

- Students will be able to describe functions and their transformations
- Students will be able to graph functions using transformation knowledge and the tool-kit

**Supportive resources and tutorials for the week** (plans for re-teaching): Khan Academy, Kuta Software worksheets, Office Hours

Transformation extra video 1: <https://www.youtube.com/watch?v=7S5HF38DnUY>

Transformation extra video 2: <https://www.youtube.com/watch?v=hYHzXILOEdM>