

Grade 7 PreAlgebra - Modified from [Unit F - Visualizing Solutions to Equations](#)**Targeted Goals from Stage 1: Desired Results**

Content Knowledge: Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.

Vocabulary: slope, intercept, undefined

Skills: Students will be able to find solutions to linear equations and graph those solutions. Students will be able to find the slope of a line.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Given an equation create a table of solutions <ol style="list-style-type: none"> 1) Watch video and/or look at written examples 2) Print page one of the practice worksheet and do 3-4 of the problems. If your points are not forming a straight line you are not doing it correctly! 	Video: Graphing Linear Equations with Graphs Written Examples Practice Worksheet (partially filled in table)	Khan Solutions to 2 Variable Equations
Tuesday: Given an equation create a table of solutions and	Video Given an Equation Create a Graph by Plotting Points Kuta Practice (When you make your table 'randomly' choose 3-4 values for x to substitute in. But, choose so the arithmetic isn't too hard - make your life easy)	Khan Complete Solutions for 2 Variable Equations
Wednesday: Finding the Slope of a Line <ol style="list-style-type: none"> 1) Watch the video 2) Do at least the 5 problems from the worksheet 	Video: Intro to Slope and Find the Slope of a Line Find the Slope Given Two Points (do at least #1,2,3,5,6)	No Assessment today

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Thursday: 1) Do the four problems from the find the slope 2) Do at least all nine of the second sheet. Don't find the slope, just follow the directions 3) Do Khan Academy after logging in	Find the slope of a line practice problems You will need to find two points on the line to then find the slope Video: Zero Slope vs Undefined Slope Positive, Negative, Zero or Undefined Slope Worksheet	Khan Practice: Slope from Graph
Friday: Seeing the relationship between an equation in the form $y = mx + b$ and the graph of the equation. 1) do and check discovery activity 2) if you did not discover the relationship between the equations and the slope and y intercept watch the video 3) complete google form	Discovery Activity Worksheet Video About the Slope and y-intercept	Google Form found on your google classroom

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

- ☐ Given an equation with x and y in it I can find several solutions and plot those solutions on a graph
- ☐ Given two points I can find the slope of a line.
- ☐ Given a line, I can find two points on it so I can find the slope of the line.
- ☐ I can look at a line and quickly state whether the slope will be positive or negative or zero or undefined.

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

Another Video Making a Table and Graphing - Video Solutions to 2 Variable Equations (Khan)

Another Video Making a Table and Graphing

More Practice Making a Table and Graphing - Practice Worksheet (and answers)

More Find the Slope of the Graphed Line Practice Worksheet

More Find the Slope of a Line Worksheet