



Creating Equations

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Math
Grades 9–12



Introduction

Use these center activities to differentiate your instruction! Create equations, and explore rational equations, quadratic inequality word problems, and exponential function word problems!

Learning Objectives

([CCSS.MATH.CONTENT.HSA.CED.A.1](#)) Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.

Materials Needed

- Chromebooks/table/device
- Math Centers (links included)

Procedure

1. Students will watch the Khan Academy videos and complete the practice problems. This is a great lesson for virtual learning, as many schools are doing a virtual or hybrid model for the 2020-2021 school year.
 - [Rational Equation Word Problems](#)
 - [Quadratic Inequality Word Problems](#)
 - [Exponential Equation Word Problem](#)
 - After watching the videos, students will complete [four practice problems](#).
2. Students will then work on Center Activities.
 - [Creating Equations and Inequalities](#)
 - [Generate Your Own Worksheet](#): This will help you differentiate in your classroom.
 - [Quadratic Functions Worksheets](#): Make Your Own. (This will help you differentiate.)
 - [Math Worksheets for Kids](#)

Evaluation

There is no rubric with this activity. Any of the centers can be utilized for classwork or quiz grades.