#### **Lesson Plan**

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# **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

(<u>CCSS.MATH.CONTENT.HSA.CED.A.1</u>) 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
  - <u>Generate Your Own Worksheet</u>: 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.

