



# Builders and Bulldozers

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Science  
Grades K-2



## Introduction

Builders create things and bulldozers take them apart. In this lesson, students will have the chance to become both! They will use materials to build a structure, deconstruct it, and then use those same materials to build a second structure.

## Learning Objectives

([2-PS1-3 Matter and Its Interactions](#)) Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.

## Materials Needed

- *Rosie Revere, Engineer* by Andrea Beaty
- Blocks/legos/magnatiles,

## Procedure

1. Ask students if they know what an engineer is. Explain that engineers are people who design and build things. Then ask students what a bulldozer is. Explain that bulldozers help take things apart. "Today you are going to get to be both a builder and a bulldozer."
2. Read the book *Rosie Revere, Engineer*. Ask students to reflect on what it means to design and build.
3. Tell students that today they are going to be an engineer (a builder) AND a bulldozer. They will start by building. They will use the materials you have set out (blocks/legos/magnatiles) to build something. After they have finished building, have them use the camera feature on the iPad to take a picture (save to photos or upload to a platform such as Seesaw).
4. Next, have students become bulldozers! Have students deconstruct their creations and then recycle those materials into another, different creation. Tell students they cannot add any new materials to the second creation; they must use the ones they had in their first creation. Take a second picture of the finished product and upload that too.
5. Have students come to the carpet and share how their creations were similar and how they were different.

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**Extension:** Have students voice record themselves comparing and contrasting their creations. They could use Sock Puppet or Vocaroo.

## Evaluation

Grade students on the following areas:

- |   |     |    |
|---|-----|----|
| • Were students engaged in the lesson?                    | Yes | No |
| • Did students upload two different photos?               | Yes | No |
| • Did students use the same materials for both creations? | Yes | No |