Science Virtual Learning

2nd Grade Force and Motion

What is Force?

April 7, 2020

2nd Grade Science
Lesson: April 7th

Learning Target:

Students will be able to recognize a force as a push or a pull. They will compare the effects of different strengths of pushes and pulls.

Background: This is a review lesson from 2nd Grade

- Students begin focusing on what a force is.
- Review Lesson 1 discussing in detail

Let's Get Started:

Watch Videos:

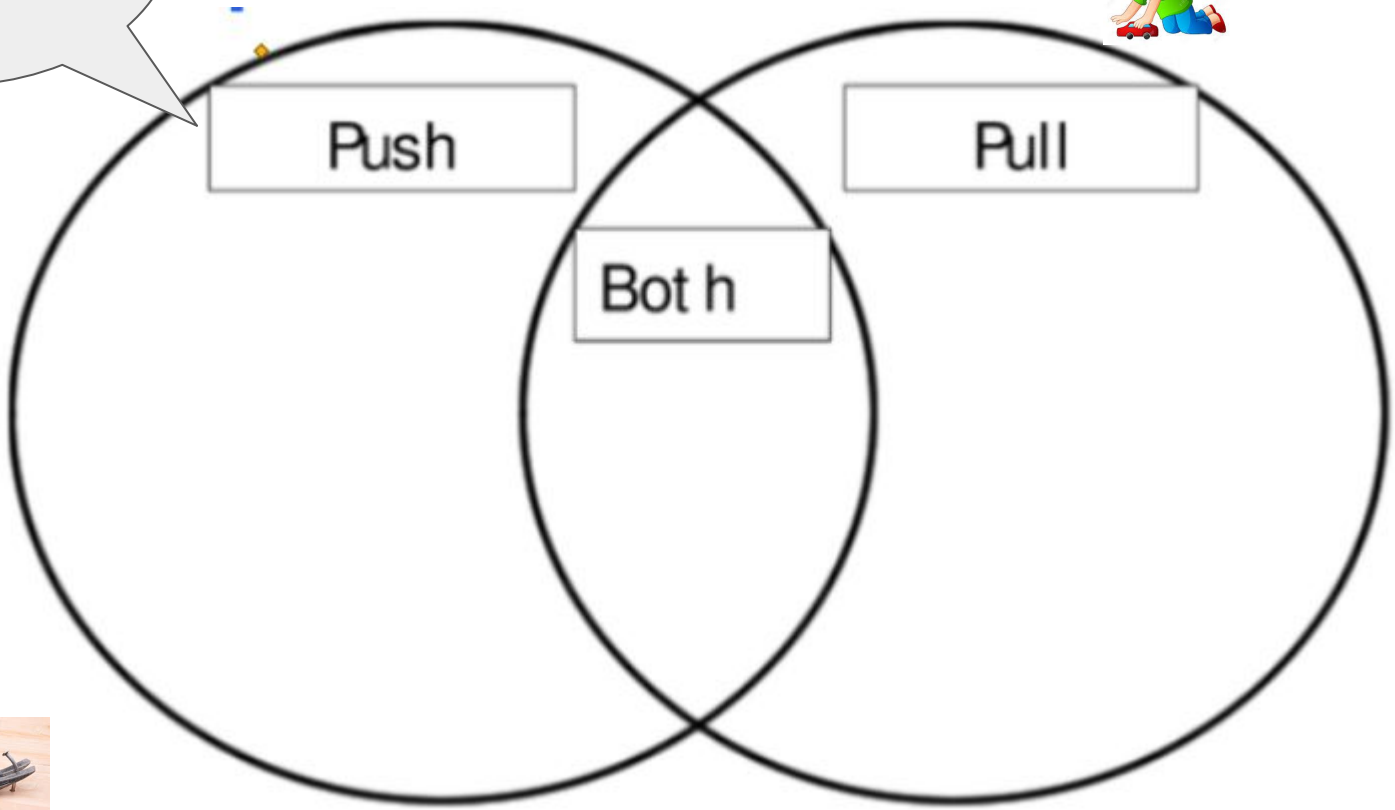
1. Newton And Me Read Aloud
2. Jack Hartman Video

Practice #1:

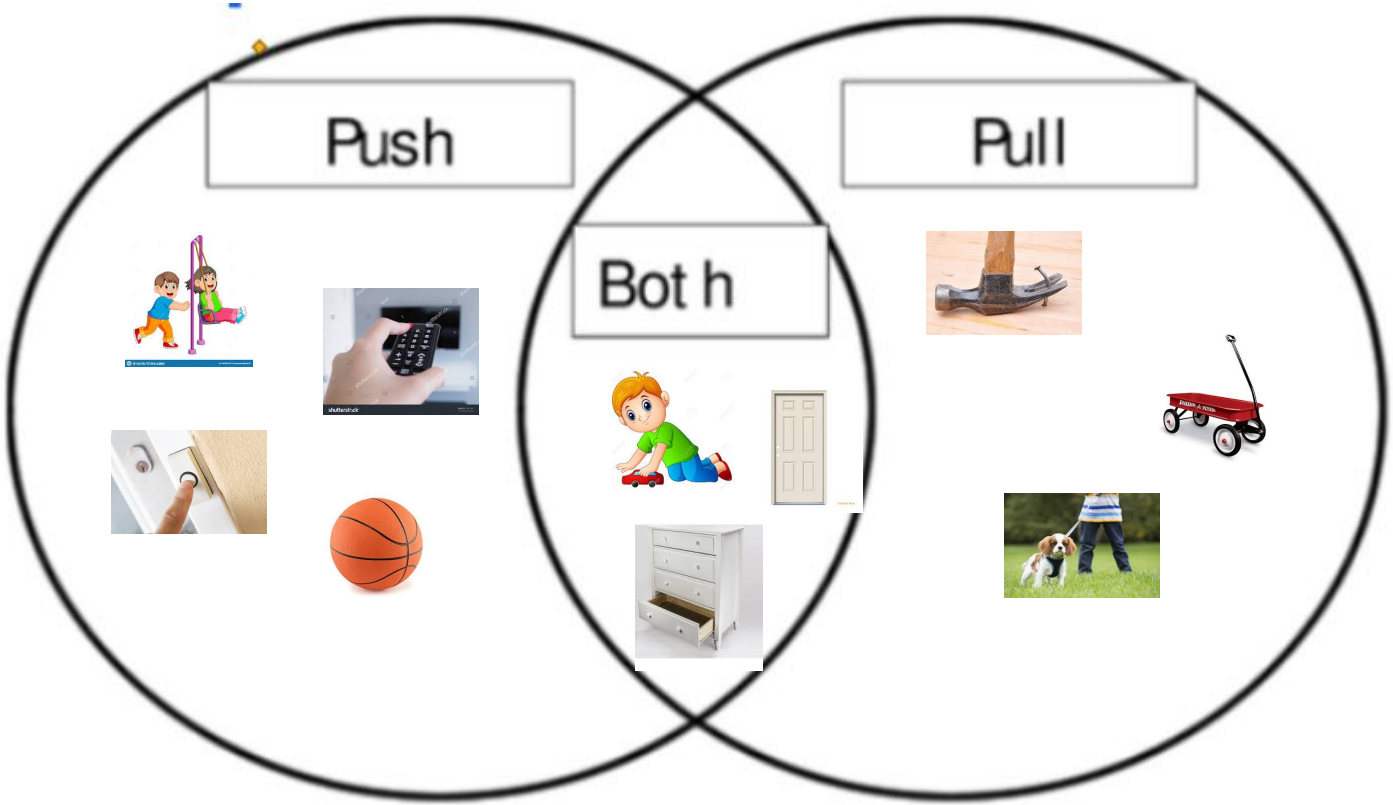
Push, pull, or both? Where does each picture go?

Think back to the video.

- A **Push** moves an object away
- A **Pull** moves an object closer



Practice #1:
Push, pull, or both?



Practice #2:
Less or More Force

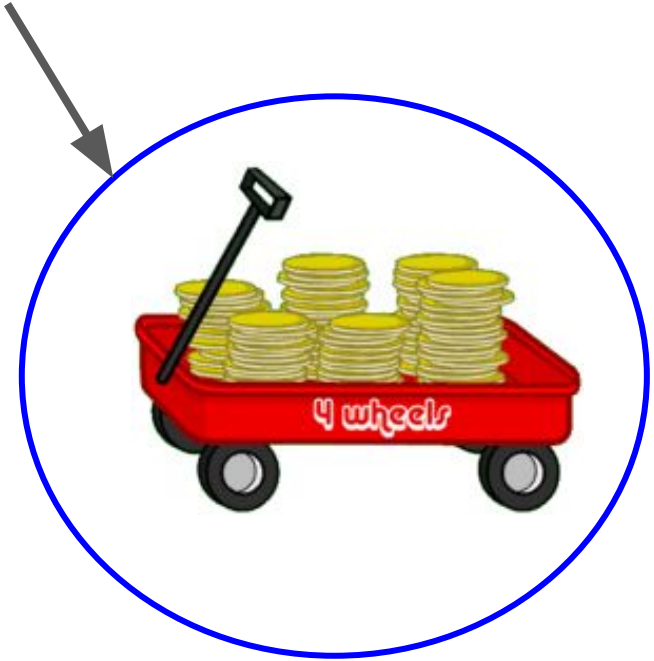
Which picture would take more force to move? Why?

Think back to the book:

- When his wagon was empty, it took less force to move
- When his wagon was full, it took more force to move.

Practice #2:
Less or More Force

This wagon takes more force because it has more weight.



Practice #3:
More or Less Force with Height

Which ramp will allow the car to go the furthest with a push?

Think back to the video.

- When he pushed his truck on the flat ground it didn't move far
- When he rode his bike down the hill he went faster.

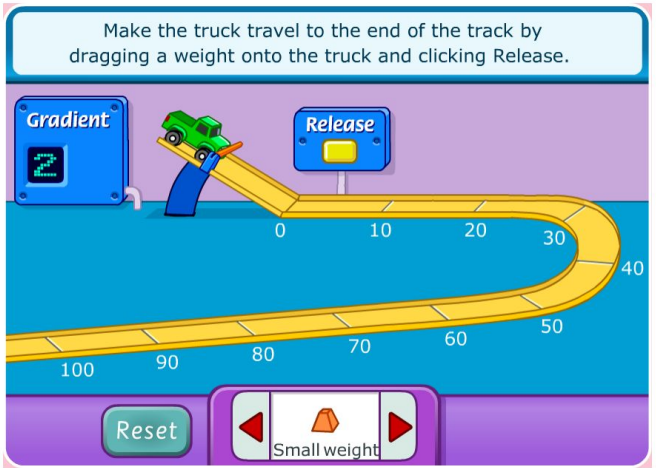
Practice #3:
More or Less Force with Height

Which ramp will allow the car to go the furthest with a push?

This ramp is much higher so it would make the car go faster and further.

MORE Practice on your own:
Go to this website: Science Kids

1. Forces In Action Game
2. Try and get the truck down the ramp and to the end of the track by adding a range of weights.



Practice:

Complete this page in your packet.

Scientist _____

Pushes and Pulls Lab Sheet

Look around your house for objects. Decide if they can be moved by a push, a pull, or both. Complete the table below.

Object	Pull	Push	Both	When will a push or pull be used with the items that were selected?

Click here to open worksheet.

Self Check:

Go tell someone in your home your answers.

1. Was this lesson?
   - ❑ easy,
   - ❑ just right
   - ❑ hard

2. Find things around your house that would need more or less force to move them. Does it take a push or a pull?