



Science Virtual Learning

2nd Grade Force and Motion

Force and Motion

April 6, 2020



2nd Grade Science Lesson: April 6th

Learning Target:

Students will understand the vocabulary for force and motion.

Background: This is a review lesson from 2nd Grade

- Students review vocabulary for force and motion that were taught earlier this year.

Let's Get Started:

Watch Videos:

1. [Move It! Read Aloud](#)
2. [Force and Motion Vocabulary](#)

Practice #1:

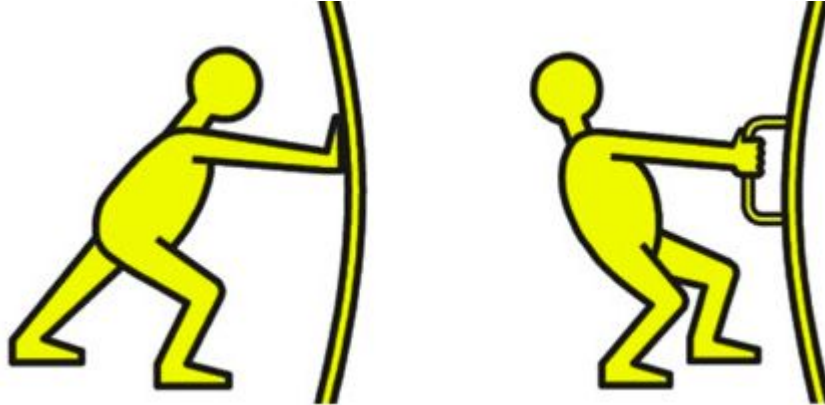
What is force?

Think back to the video.

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

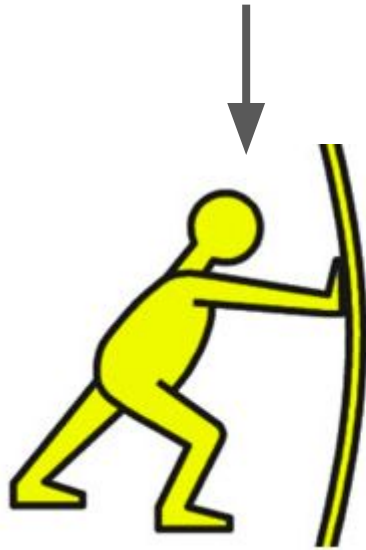
A **force** is a push or a pull on an object.

Which picture shows a pull?
Which picture shows a push?



Practice #1:

This is a **push**



This is a **pull**



Practice #2:

What is motion?

A **motion** is when an object or person moves from one location to another.

Think back to the video.

- You use force to move your body.
- You use force to move objects.



Can you find more than one way the children are using force to move their bodies or objects?



Practice #2: What is motion?



The boy is **pushing**
the merry-go-round

The boy is **pushing**
the girl on the swing

The boy is **pushing**
down on the pogo
stick with his feet

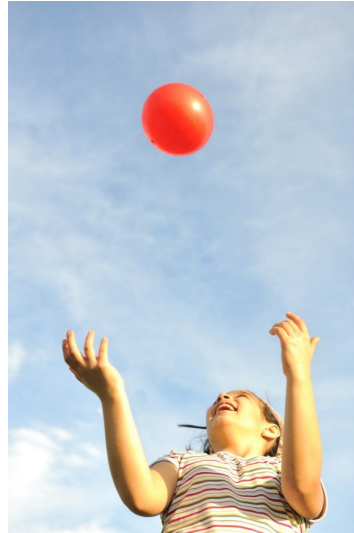
Practice #3:

What is gravity?

If you throw something in the air, it will fall back down. It is pulled down by a force called **gravity**.

Think back to the video.

- Gravity is a force that pulls things back toward the Earth.
- You can't see gravity.



Which way will the ball go next?

Practice #3:

What is gravity?



Which way will the ball go next?

The ball will go down,
back towards the
Earth.

Practice #4: What is mass?

Mass is how much matter is in an object.

Think back to the vocabulary video.

- Objects have different mass depending on the materials they are made of.
- A bowling ball and a basketball are the same size but they have different mass because they are made out of different material



Do the coins or the dollar bills have more mass?
How do you know?

Practice #4: What is mass?



Do the coins or the dollar bills have more mass?
How do you know?

The coins have more mass than the dollar bills because they are made of heavier material.

Practice #5:

What is friction?

Two surfaces rubbing together creates a force called **friction**.

Think back to the video.

- Friction makes moving things slow down.
- Friction also helps you grip the ground when you walk or run.



Will the carpet or the wood floors cause more friction?

Practice #5: What is friction?



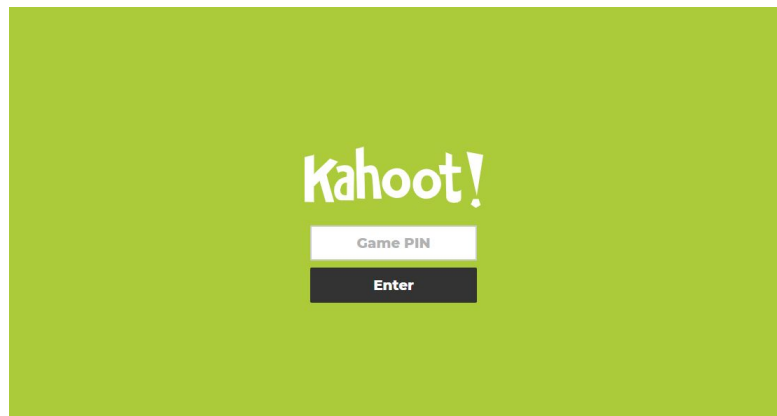
Will the carpet or the wood floors cause more friction?

The carpet will cause more friction because it is a rougher surface

MORE Practice on your own:

Go to this website: [Kahoot!](https://kahoot.com)

1. Enter the game code: 0315777
2. Press Enter
3. Answer the questions
4. How many did you get correct?



Practice:

Complete this page in your packet.

Chapter
10

Name: _____

Move It!

Let's learn some new words about motion!

1. A push or a pull is called a _____.
2. If you throw something in the air, it will fall back down. It is pulled down by a force called _____.
3. Two surfaces rubbing together creates a force called _____.
4. A force is a push or pull that starts an object moving or changes its _____.

Directions: Cut out the cards and place them in the sentences above. Then, listen as your teacher reads the book *Move It!*



Click here to open worksheet.



Self Check:

Go tell someone in your home your answers.



1. Was this lesson?

- easy,
- just right
- hard

2. Draw pictures of the different definitions: force, motion, gravity, mass and friction