



Science Virtual Learning

3rd Grade Forces and Motion

April 10, 2020



3rd Grade Math

Lesson: 04/10/20

Learning Target:

I can observe an object's motion in order to collect data and prove that a pattern can be used to predict future motion.

Background:

- Students learn to describe ways to change the motion and direction of an object and amount of force in 2nd grade.
- Students learn how to predict patterns of motions using Newton's Laws of Motions.

Let's Get Started:

Watch Videos:

1. [Anchor Lesson](#)
2. [Study Jams- Force and Motion](#)
3. [Move It! Read Aloud](#)

Practice #1:

If you want your soccer ball to have motion, what do you have to apply to it?

Think back to the study jam video

- Sam kicked the ball but didn't make it inside the goal. Mia told him he needed more _____ in order for the ball to have greater **distance**.



If you want the soccer ball to go a greater **distance** you need more of this.

Practice #1:

If you want your soccer ball to have motion, what do you have to apply to it?

Think back to the study jam video

- Sam kicked the ball but didn't make it inside the goal. Mia told him he needed more _____ in order for the ball to have greater **distance**.



If you want the soccer ball to go a greater **distance** you need more of this.

Answer:
Force

Practice #2:

Which **force** is causing this apple to fall to the ground?

Think back to the read aloud

- There is a **force** that always makes things fall back down to Earth. What is this **force**?

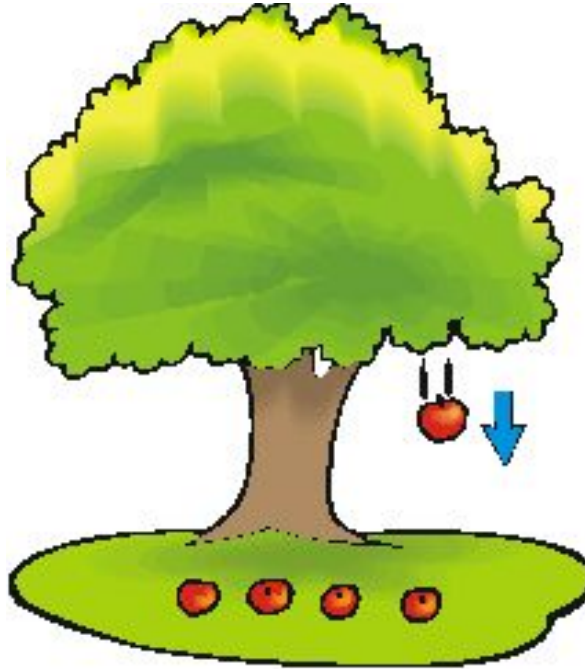


Practice #2:

Which **force** is causing this apple to fall to the ground?

Think back to the read aloud

- There is a **force** that always makes things fall back down to Earth. What is this **force**?



Answer:
Gravity

Practice #3:

Think back to the read aloud

- A **push** moves an object away and a **pull** brings an object closer. Both require **FORCE**.

Which activity is a **push** and which one is a **pull**?



Which activity requires the **MOST** force?

Practice #3:

Think back to the read aloud

- A **push** moves an object away and a **pull** brings an object closer. Both require **FORCE**.

Which activity is a **push** and which one is a **pull**?



Answer:
Push



Answer:
Pull



Answer:
Pull

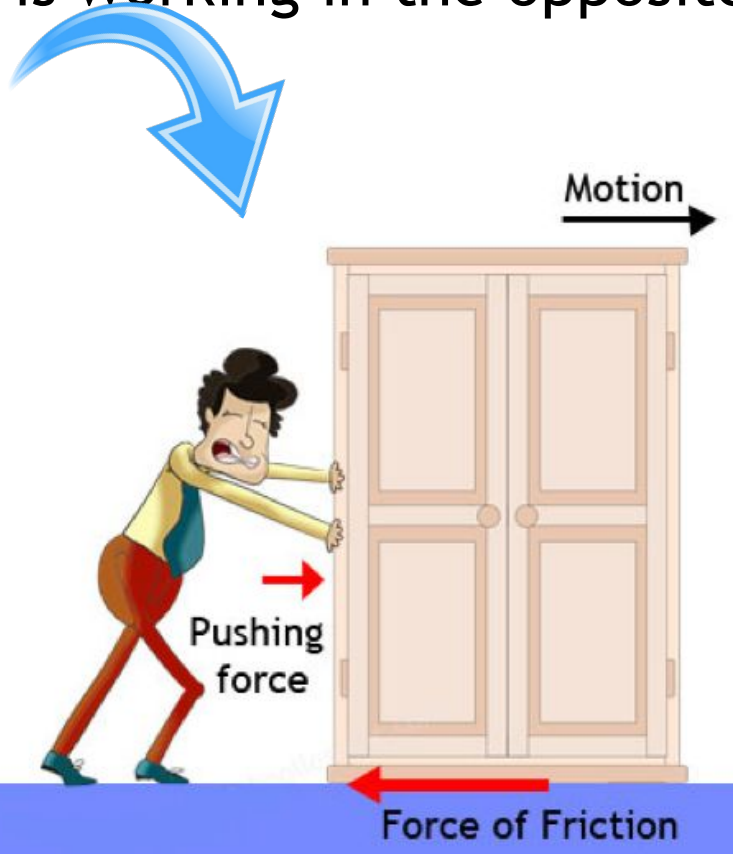
Answer:
Pulling
the
stump



Which activity requires the **MOST** force?

Practice #4:

In the image below you see a man **pushing** a cabinet. **Friction** is working in the opposite **direction** of the **force** he is applying.



Which of these two objects would have the most friction if rolled across your carpeted floor?

1) marble

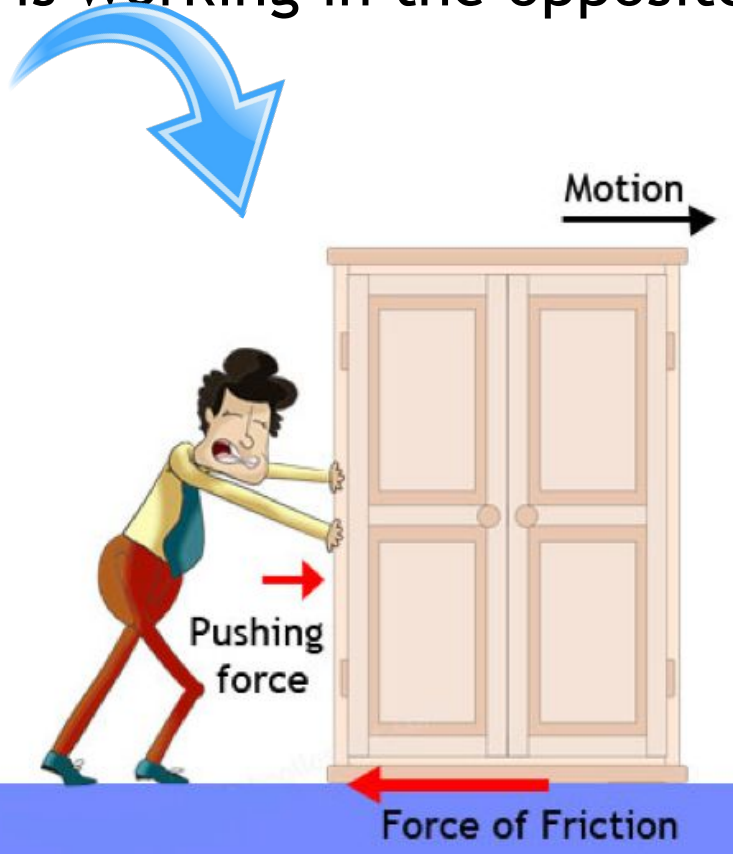


2) rubber bouncy ball



Practice #4:

In the image below you see a man **pushing** a cabinet. **Friction** is working in the opposite **direction** of the **force** he is applying.



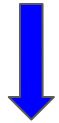
Which of these two objects would have the most friction if rolled across your carpeted floor?

1) marble



2) rubber bouncy ball

Answer

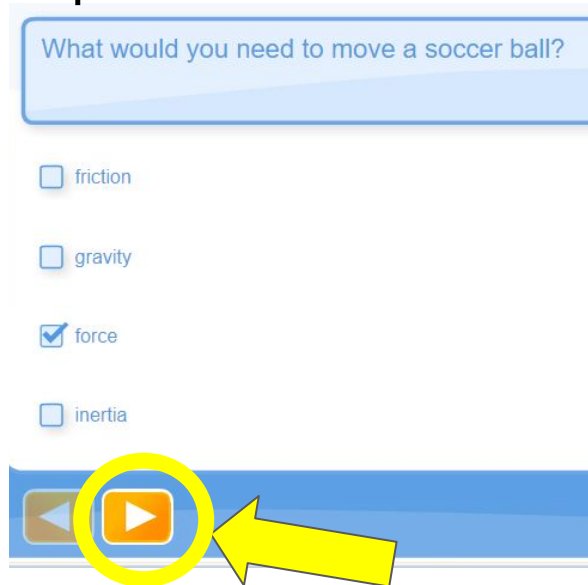


Practice on your own:

Go to this website:

[Study Jam: Test Yourself](#)

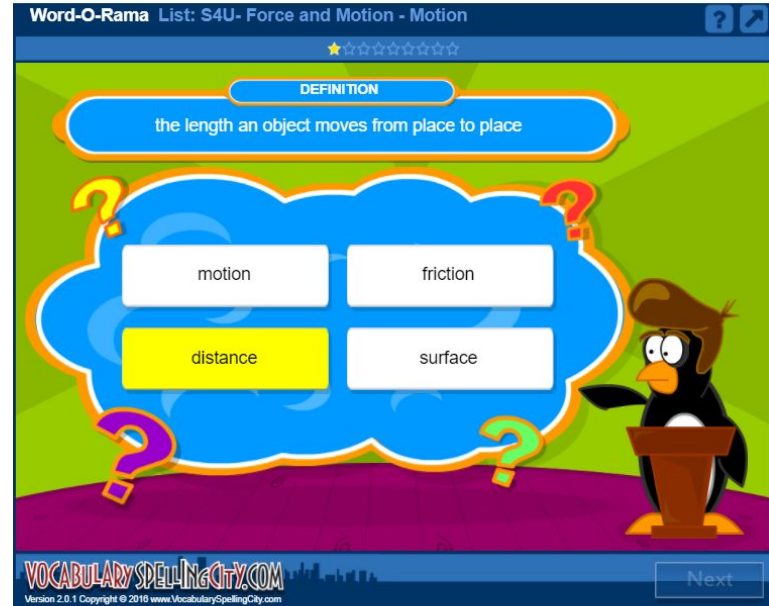
1. If you need to rewatch the study jam video, you may do so.
2. Then click on “Test Yourself”
3. Read the question, put a checkmark for your answer, and then click the yellow arrow to go to the next question.



MORE Practice on your own:

Go to this website: [Word-O-Rama](http://www.VocabularySpellingCity.com/Word-O-Rama)

1. Select PLAY, then START
2. Match each word to its definition



Practice:

Watch these videos and complete this page in your packet.

1. [Move It! Read Aloud](#)
2. [Activity- Vocab](#)

After watching the read aloud "Move It! Motion, Forces and You" by Adrienne Mason, find these words in the story to help you identify what they are. Afterwards, choose 5 vocab words, draw a picture, label and describe what they are.

Push

Pull

Force

Motion

Distance

Direction

Gravity

Friction

Click here to open
worksheet.



Self Check:



1. Was this lesson?

☐ easy

☐ just right

☐ hard

2. Find an object in your house that you can easily slide. Which one slides the smoothest? Which object has more friction? Tell someone you live with!