

Middle School Science Virtual Learning

6th Grade Science

Friction and Speed with Newton's Laws of Motion

April 21, 2020



Middle School Physical Science Lesson: April 21, 2020

Objective/Learning Target:

Students will use Newton's laws to test how surface friction affects the speed of objects.



Warm Up:



Let's Get Started: Watch this video.



Warm Up: Answer Key





Practice 1:

Explore the effects of friction on the motion of objects with this Mystery Science.

- 1. To get started watch the videos and answer the discussion questions on a piece of paper.
- 2. If you would like to do the <u>hands on activity</u> but you do not have the exact materials at home that are shown, you can substitute with other similar objects.





Practice 2:

- 1. Read the article <u>Friction Basics</u>.
- 2. Then, test your knowledge by taking the <u>quiz</u>.





Additional Practice:

- 1. Complete the **friction** explorations on the <u>Phet Lab</u>.
- 2. Check out this hands on activity: <u>Slippery Science</u>: <u>Explore Friction by Launching Stuff</u>.
- 3. Complete the practice problem <u>worksheet</u> then check your answers using the <u>answer key</u>.