

Science Virtual Learning

6th Grade Science: Newton's 3rd Law

April 16, 2020



Grade/Course Lesson: April 16, 2020

Objective/Learning Target:
Students will explain Newton's Third Law of Motion



Warm-Up

Q: If you throw a basketball to a friend while you are sitting or standing on a skateboard, what will happen to you when you throw the ball?



Warm-Up **Answer**

Q: If you throw a basketball to a friend while you are sitting or standing on a skateboard, what will happen to you when you throw the ball?

A: You will move backward as the ball moves forward. (This is because when you exert a force on the ball, the ball exerts a force back on you.)



Key Terms

momentum- a measurement of the amount of motion an object has.

momentum= mass x velocity



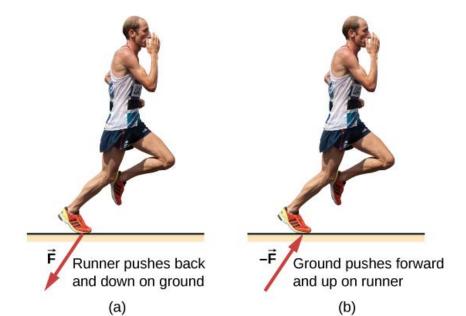
Newton's Third Law of Motion is commonly stated as, "For every action, there is an equal and opposite reaction."

This is why you move backwards if you are on a skateboard while throwing a ball. As you exerted a force (push) on the ball exerted a push back on you.

The Third Law is also called the Law of Momentum



Newton's Third Law of Motion is commonly stated as, "For every action, there is an equal and opposite reaction."





Warm-Up: Watch
The Science of
Football (3rd Law)
Fill in the blanks in the sentence below.



The momentum of the players is the same before and after they collide. This is called the Law of of



Warm-Up: Watch
The Science of
Football (3rd Law)
Fill in the blanks in
the sentence below

Answer Key



The momentum of the players is the same before and after they collide. This is called the Law of Conservation Of Momentum



Practice 1

- Watch the Study Jams <u>video</u>.
 (Click play video)
- 2. Answer the 7 questions to test your knowledge. (Click test yourself)



Practice 2

Read a short article on the Third Law

Six Practice Problems

Short Review of the Third Law of Motion



Additional Practice

- 1. Watch the Brain Pop <u>video</u> and take the <u>quiz</u>.
- 2. Review Newton's Laws of Motion.
- 3. Check your answers to the <u>quiz</u> and <u>review</u>.