



## Keep Learning & Exploring

[www.youtube.com/watch?v=c4lu\\_-jqegw](https://www.youtube.com/watch?v=c4lu_-jqegw)

In this easy Kid Science experiment Science Buddies shows you how to make simple bottle rockets demonstrating Newton's 3rd law of motion. Most bottle rockets move because of Newton's 3rd law of motion.

Rockets work by burning fuel. As fuel burns and swells out behind, the swelling pushes the rocket forward.

### What are the 3 LAWS OF MOTION ?

Fill in the blanks...

**1** Objects at rest remain at   
and objects in motion remain in   
in a straight line unless acted upon by an

**2** FORCE equals  times

**3** For every action there is an  and  
 reaction.

## Vocabulary

**Gravity:** The downward force applied to all objects on earth.

**Acceleration:** An increasing change in motion?

**Aerodynamics:** The study of the science of flight.

**Propulsion:** The action of driving or pushing forward.

**Programming Language:** A formal structured language designed to communicate instructions to a machine.

**Isaac Newton:** the scientist that discovered the 3 laws of motion?



**What type of ROCKET experiment did you complete? If you did more than one, which one had the best results? Use examples of what you did to support your evidence.**