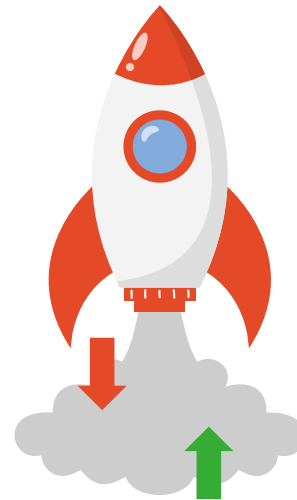
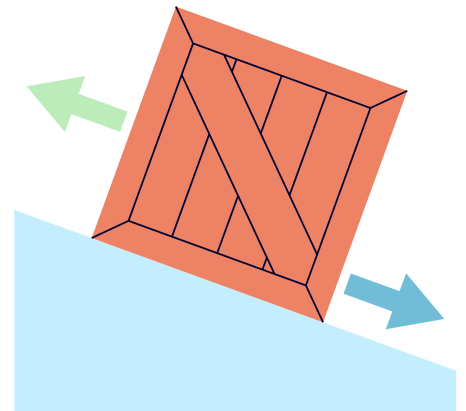


Newton's THREE Laws of Motion

- ✓ **Teaches:** Newton's THREE Laws of Motion including Theory, Applications, and Student Activities for all three.
- ✓ **Ideal for Middle School Science**
- ✓ **No-Prep Resource**



$$F_{\text{net}} = ma$$



UPGRADE to the Bundle

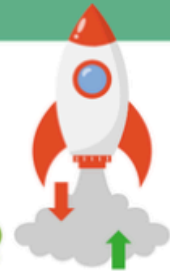
CLICK HERE

The Bundle Includes

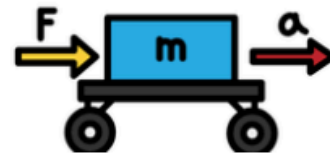
- Lesson on all 3 Laws
- 3 Activities on Newton's 1st Law
- Student-Led Lab on Newton's 2nd Law
- Newton's 3rd Law Activity

Newton's Laws of Motion Lesson & Activity Bundle

- ✓ **Teaches:** Newton's Laws of Motion including the lesson, student-led lab, 4 activities, and one 1 worksheet.
- ✓ **Ideal for Middle School Science**
- ✓ **No-Prep Resource**



$$F_{\text{net}} = ma$$



Your Lesson

✓ **Key Concepts Explained Simply:**

Newton's THREE Laws of Motion including Theory, Applications, and Student Activities for all three.

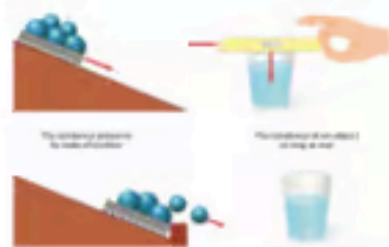
✓ **Ideal for Middle School Science:**

Supports Physical Science units with concise, structured content.

✓ **No-Prep Resource:** Ready-to-use lesson outline perfect for notes, review, or sub plans

Newton's 1st Law of Motion

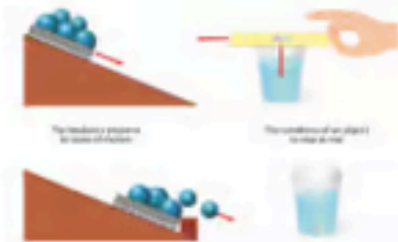
If an object is not moving, it will continue to not move.



Newton's 1st Law of Motion

If an object is not moving, it will continue to not move.

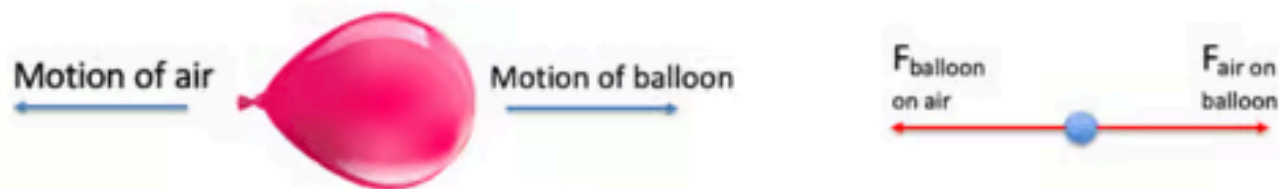
If it is moving, it will continue to move with the same speed in the same direction.



Student and Teacher versions of the presentations and videos embedded.

Newton's 3rd Law of Motion

When a balloon is inflated and released, air rushing from the open nozzle causes the balloon to fly off in the opposite direction.



Videos embedded directly into the slides. One-click access.

Newton's Laws Worksheet

Newton's Laws of Motion – Student Lesson Outline

What is a Force?
A force is a push or pull.

Force Overview

- The net force is the total of all the forces acting on an object
- The net force below is zero because there are equal forces acting left and right on the object

Force Overview – include the diagram in your notes
When the net force = 0, we say the forces are balanced.

Force Overview – include the diagram in your notes

How Does It Work?

How Does It Fly?

Why So Slippery?

Newton's 1st Law of Motion
Isaac Newton came up with three laws that help us understand how things move.

Newton's 1st Law of Motion
If an object is not moving, it will continue to not move.

Seat Belts and Airbags

- An example happens when a car slows down quickly
- Due to Newton's 1st Law, the people in the car continue moving forward when the car slows quickly and can crash their heads
- Seat belts and airbags stop the person from hitting their head on the dashboard or steering wheel

Try It Out https://phet.colorado.edu/sims/html/forces-and-motion-basics/latest/forces-and-motion-basics_en.html → click on Motion
Use the following simulation to test out Newton's 1st Law
Click the forward arrow once to give the box a 50 N push then push the back arrow to remove the force

What happens to the box?

Does it continue its motion?

What happens if you apply a 50 N force in the opposite direction while it is moving?

Includes student notes in easy-to-fill-in formats.

Newton's 3 Laws Identification Worksheet

Work through the questions below by identifying which of Newton's Laws they are talking about. Under each one, provide 1-2 sentences explaining your choice.

- Sally rolls two balls, a heavy bowling ball and a light tennis ball. She notices that it is much easier to roll the tennis ball. 
- A car slides out of control on ice.
- John notices that if he gives a box a harder push, it moves faster across the ground. 
- Ashely notices that when she is paddling her kayak, she needs to push the water backwards to make her kayak go forwards which confuses her. 
- A 35,000-pound truck needs a larger engine than a 2,000-pound car.
- When Jasmine kicks a soccer ball, she notices that it travels along the ground but then stops. 
- Dwayne throws a ball down toward the ground. After it hits the ground, it bounces back up to him.
- To make a rocket go into the air, NASA engineers point it directly upwards prior to launch. 
- Trisha notices that when playing tennis, the harder she swings her racquet, the faster the ball travels.

...llided, Kyle kept moving
eat belt! 

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Who is it for?

- ✓ Middle School Science Teachers
- ✓ Teachers using NGSS or TEKS
- ✓ Teachers who want to increase student engagement and retention
- ✓ Teachers not looking to reinvent the wheel
- ✓ Teachers who don't want to spend all their time prepping