

Newton's 3 Laws of Motion Worksheets & Activities Bundle

Newton's 1st Law of Motion

Activity 1: Coin and Card Inertia Challenge

Objective:

Students will demonstrate inertia by observing how an object at rest remains at rest or in motion unless acted upon by an unbalanced force.

Materials:

- Index card (or playing card)
- Plastic cup (clear if possible)
- Coin (quarter or similar)

Instructions:

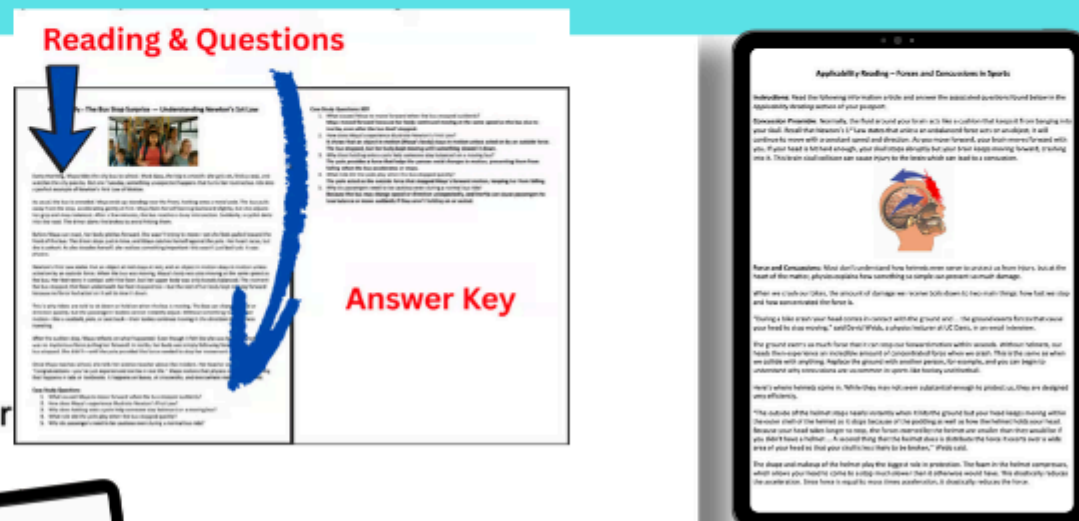
1. Place the cup upright on a table.
2. Lay the index card flat across the top of the cup.
3. Place the coin in the center of the card.
4. Flick the card sideways quickly with your finger.
5. Observe what happens to the coin.
6. Record your observations and explain why the coin falls into the cup instead of sliding sideways with the card.
7. Repeat the experiment with different flicking speeds (slow vs. fast).
8. Answer the following reflection questions:

Does this demonstrate Newton's First Law of Motion?

What would happen if the card is pulled slowly? Why?

How does the balance

21+ Activities for Middle and High School Classrooms



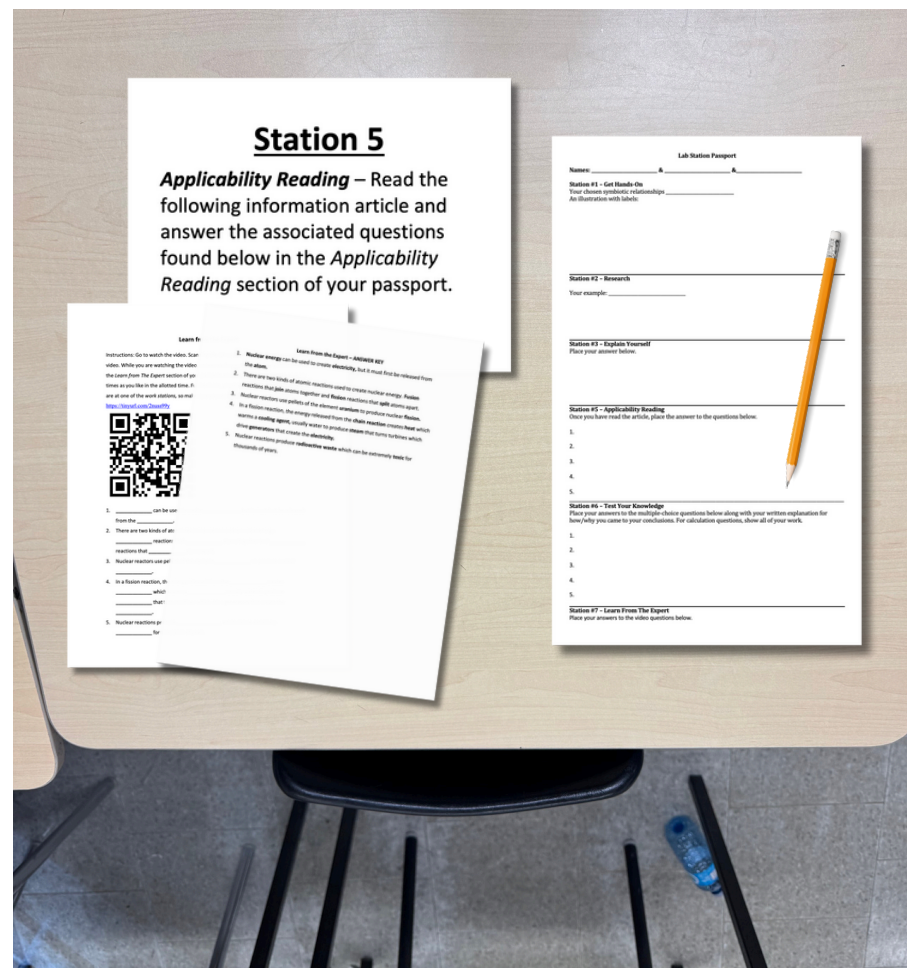
Print and go Middle & High School Newton's Laws Worksheet & Activity Bundle

SCROLL to take a look inside!



Ways to Use this Bundle

- ★ Introduce Newton's Laws
- ★ Physical Science/Physics Lessons/Activities
- ★ Reinforce Newton's 3 Laws of Motion Concepts
- ★ Science or STEM Club



Basic 22-Term Word Search



Word Scramble and Define Activity

HOW THESE ACTIVITIES WILL HELP YOU



- Provide ready-to-use, low-prep lessons that save significant planning time.
- Offer differentiated activities suitable for a wide range of learning levels and styles.
- Support hands-on, inquiry-based learning aligned with physics standards.
- Reinforce key concepts through varied formats like labs, readings, videos, and problem sets.
- Increase student engagement with interactive, movement-based, and creative tasks.
- Give teachers flexible options for assessment, practice, enrichment, and remediation.

What's Inside Your Bundle?

Crash Course: Newton's Laws Video Worksheet

Isaac Newton - Reading

Newton's 1st Law Case Study - Bus Stop Surprise Case Study

Newton's 2nd Law Case Study - Sports Car vs Pickup Truck

Newton's 3rd Law Case Study - How Rockets Accelerate in Space

Newton's 3rd Law Case Study - Why You Don't Jump off Boats

Newton's 3 Laws of Motion - Practice Set

Newton's 3 Laws of Motion Physics Problems Video Walkthrough

Newton's 3 Laws Identification - Worksheet

Newton's 1st Law of Motion - Activities

Newton's 1st Law of Motion - Worksheet

Newton's 2nd Law STEM Investigation - Balloon Rocket

Newton's 2nd Law of Motion - Worksheet

Newton's 3rd Law of Motion - Worksheet

Newton's Laws of Motion - Word Search and Scramble

Newton's Second Law Student-Led Lab

Newton's Third Law and Colliding Objects - Activity

Newton's 3rd Law Case Study - Why You Don't Jump off Boats

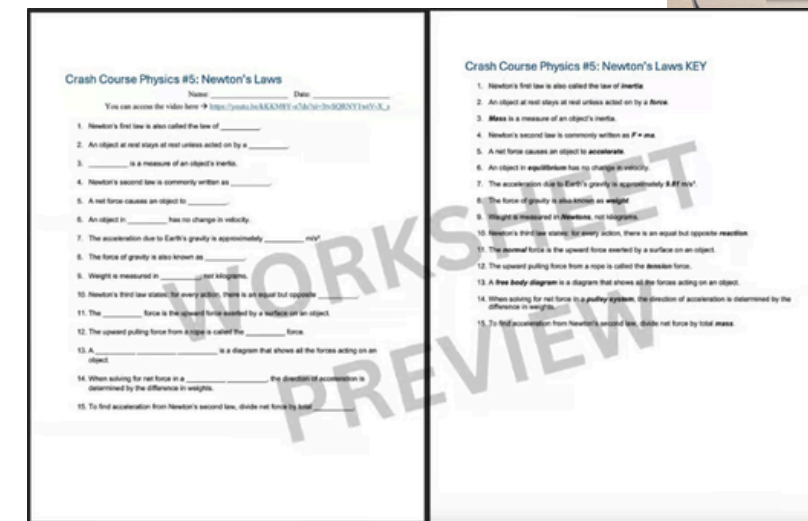
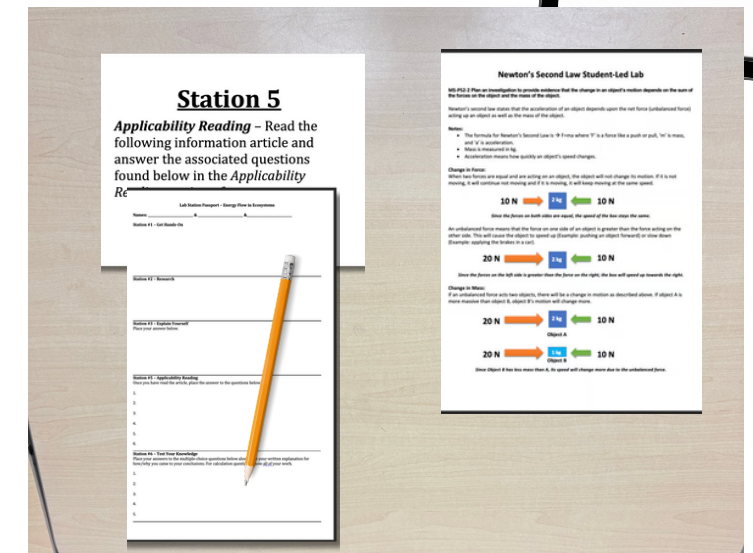
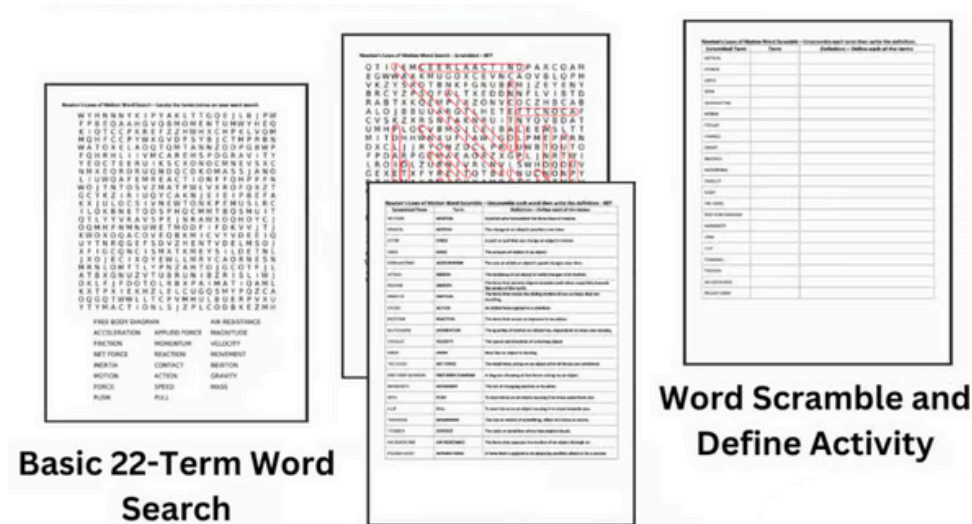
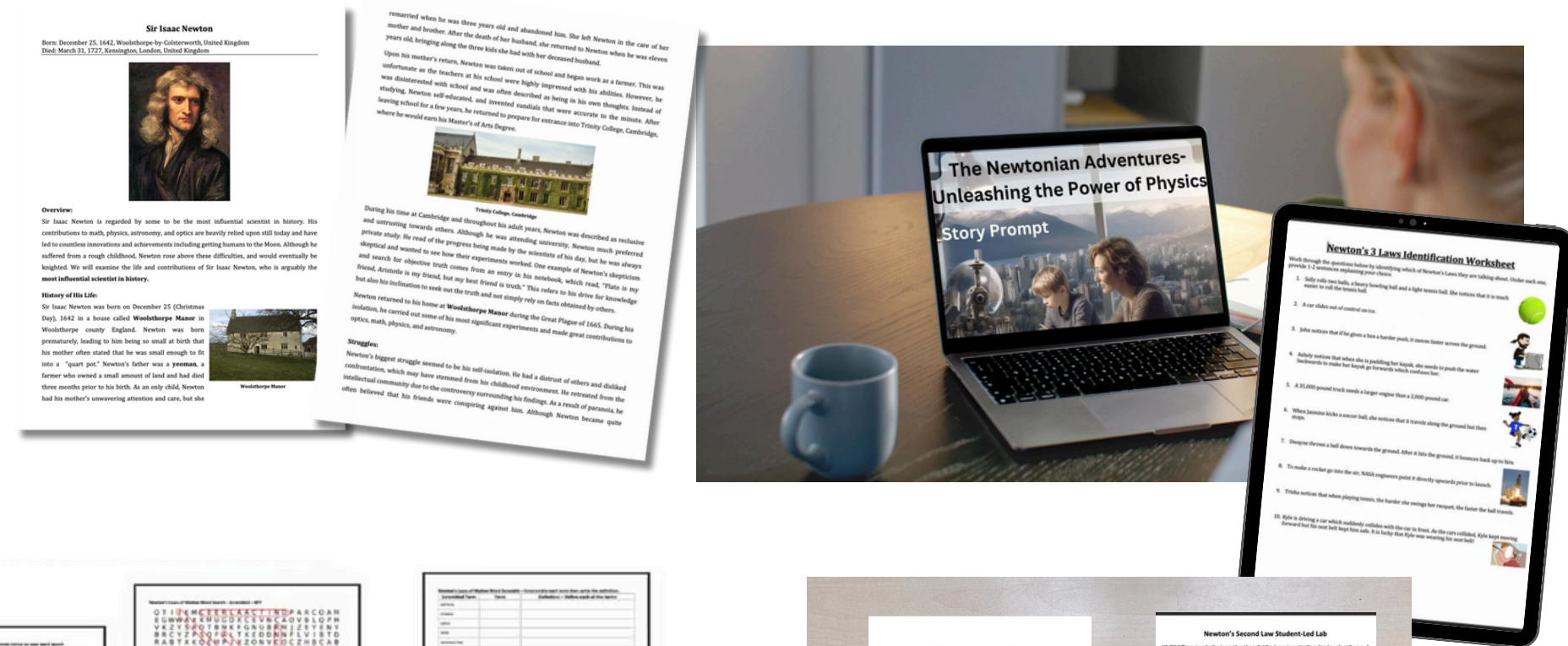
Newton's 3rd Law STEM Investigation - Water Bottle Jet - Thrust vs Nozzle Size

Newton's Three Laws of Motion Lab Station Activity

Newton's Three Laws Video - Project

Parachute STEM Lab - Canopy Diameter vs Descent Time

The Newtonian Adventures - Unleashing the Power of Physics

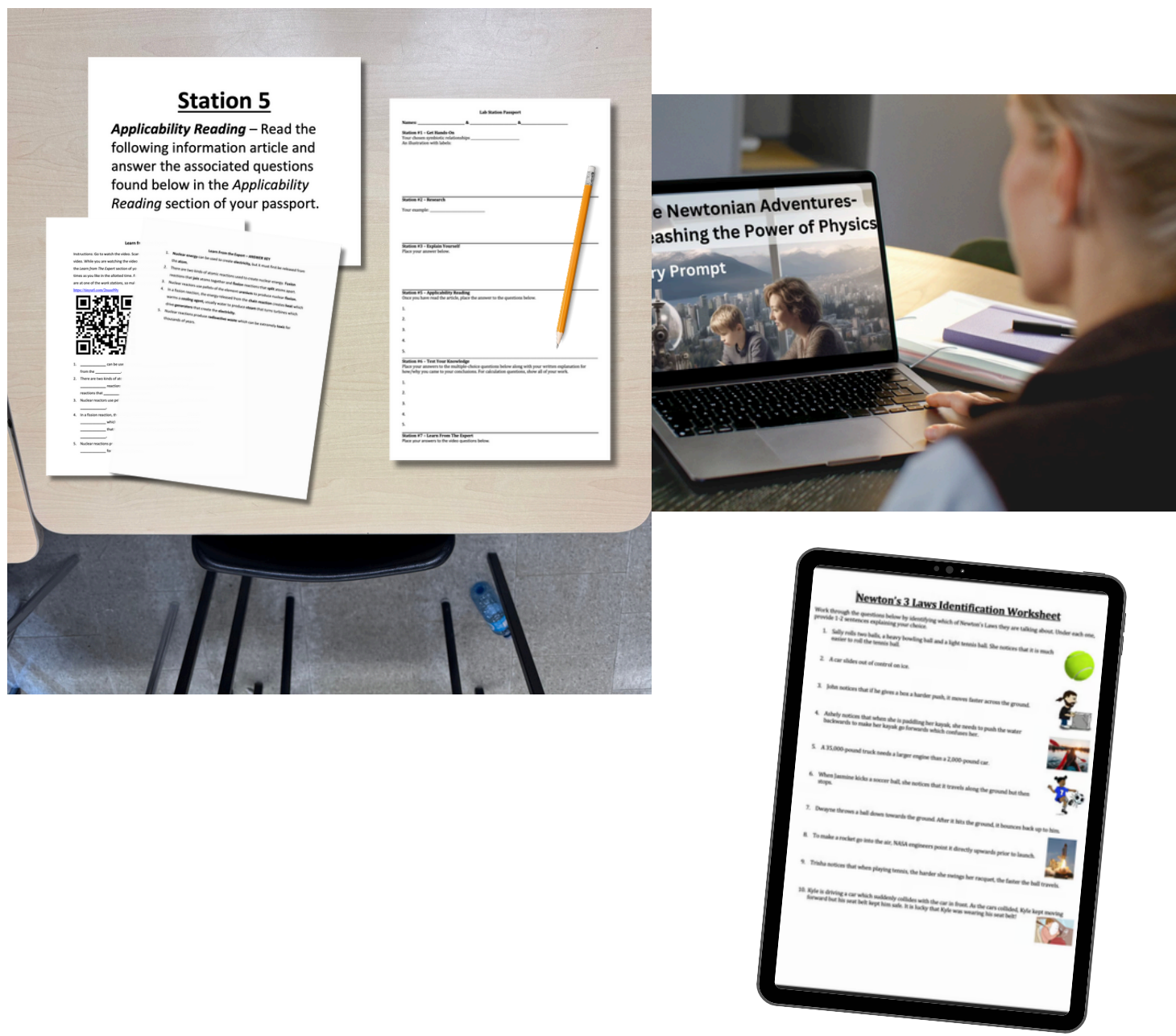


15 Questions

Answer Key Included



Skills Your Students Will Learn/Improve



- ✓ Understanding and applying Newton's three laws of motion.
- ✓ Performing calculations involving force, mass, and acceleration.
- ✓ Interpreting data and analyzing results from investigations.
- ✓ Strengthening scientific inquiry, experimentation, and problem-solving skills.
- ✓ Communicating scientific ideas through writing, discussion, and presentations.
- ✓ Connecting physics concepts to real-world situations and everyday experiences.
- ✓ Collaborating effectively during labs, projects, and group tasks.

SOME OF THE INCLUDED RESOURCES

Newton's Three Laws of Motion Lab Station Activity

★★★★★ Extremely satisfied - Fun engaging activities. I can't wait to include more of your products into next year's plans.

★★★★★ Extremely satisfied - My physics students enjoyed this activity and the chance to move around and review.



7 Unique Stations

Newton's Second Law Student-Led Lab

**NO-PREP
JUST PRINT AND GO!**
Students design and carry-out an experiment to test Newton's Second Law of Motion



Newton's Third Law and Colliding Objects Activity

**NO-PREP
JUST PRINT AND GO!**
Students design a solution to a problem involving the motion of two colliding objects.



The Newtonian Adventures- Unleashing the Power of Physics

Story Prompt



Sir Isaac Newton Famous Scientist Reading Comprehension Article

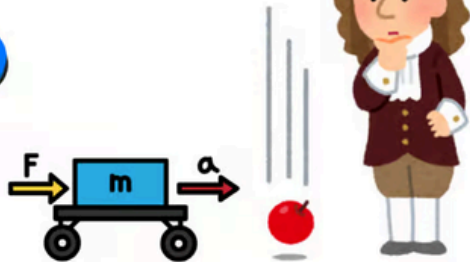


Improve your students **Scientific Literacy and Analysis Skills**, use as an **Emergency Substitute Plan** or create **Applicability** in your classroom

Crash Course Physics #5 Newton's Laws

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

WATCH VIDEO



Includes Student Copy and Answer Keys

Newton's Laws of Motion Word Search and Scramble

THREE Activities in One!

1. Basic 22-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define Activity



TWF



Newton's 3 Laws Identification Worksheet

**NO-PREP
JUST PRINT AND GO!**
Students analyze 10 different real-life situations and determine which of Newton's 3 Laws can be used to explain what is happening.



TWA

Teach With Fergy's Physics Problems Newton's 3 Laws of Motion - Fully worked solutions



WHAT TEACHERS SAY ABOUT THE INCLUDED RESOURCES

★★★★★ Extremely satisfied - Thank you so much for putting in your time and energy on this resource! It was a life saver! It was used for each bell and much appreciated-Thank you.

★★★★★ Extremely satisfied - Great resource students really liked it. Kept the students engaged. My students loved this lesson (so did I). My class was engaged and happy. I look forward to using this resource again next school year.

★★★★★ Extremely satisfied - I am always looking for great labs for my active 8th graders. This was a great resource to keep them engaged and learning.

★★★★★ Extremely satisfied - I absolutely love using this resource! It makes it so easy for the students and they always ask for them! Great sub assignment and way to incorporate writing into a subject that sometimes does not have many times for writing

★★★★★ Extremely satisfied - I used this as a review after teaching all 3 laws. Easy to use, great review of Newton's laws.

Great resource - aligns well to standards.

★★★★★ Extremely satisfied - A variety of interactive activities that keep students actively involved and cater to different learning styles.

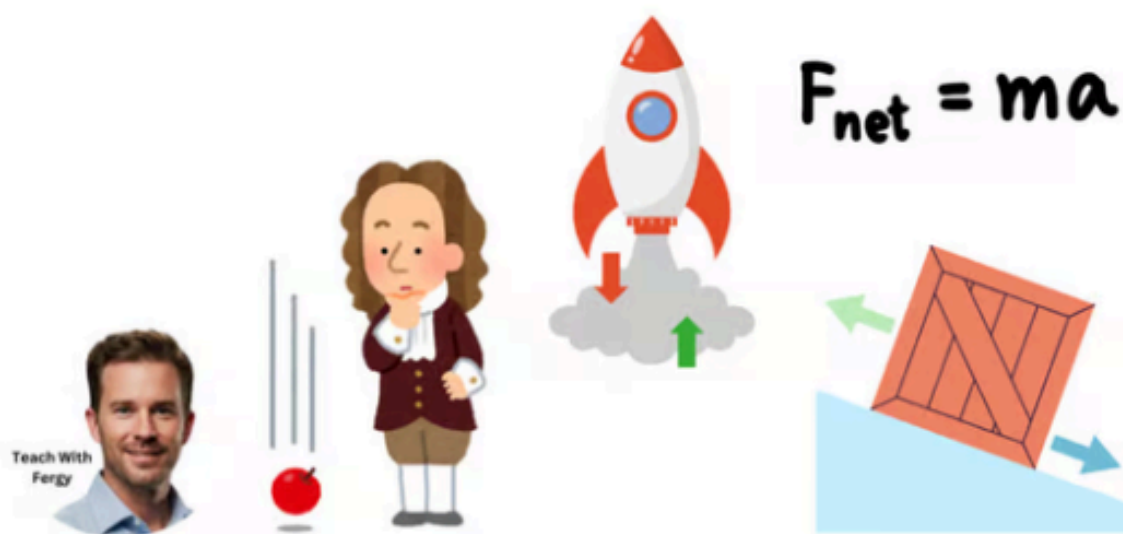
Get my Newton's Law Lesson

I've put both on sale until the end of the weekend. Choose your lesson by clicking below.

**6th, 7th, 8th,
9th Grade
Middle
School**

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



Newton's 3 Laws of Motion Lesson

Grade 10-12

No-Prep & Fully Editable

**9th, 10th, 11th,
12th Grade
High School**



- ✓ Interactive & Video-Enhanced
- ✓ Google & Office Compatible
- ✓ Assessment Included

Over 120 Units Sold!

★★★★★ Extremely satisfied - This lesson was meaningful and engaging. It helped the students learn more about Newton's Laws of Motion. Thank you!

★★★★★ Extremely satisfied - A great resource! Engaging and informative.