

Forces Unit

- ✓ Complete Forces Unit
- ✓ 5 Lessons, 9 Activities, 1 Unit Test
- ✓ Google & Print Ready
- ✓ Aligned to NGSS



Teach With
Fergy

UPGRADE to the Bundle

Physics 1 Curriculum Bundle

- ✓ Complete Physics 1 Curriculum
- ✓ Google & Distance Learning Ready
- ✓ Engaging, Inquiry-Based Lessons
- ✓ Comprehensive Coverage

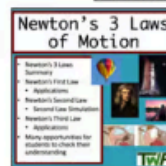


Complete Lessons

Make sure your students are on track

Student copies with blanks

Videos embedded right into your presentations



Interactive and Engaging Activities

- Lab Station Activities
- Digital Scavenger Hunts
- Reading Comprehensions
- Speed Quizzing
- Digital Interactive Notebooks
- Task Card Activities



CLICK HERE

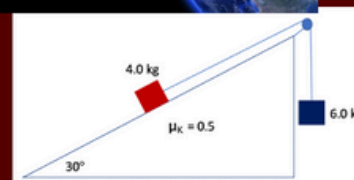
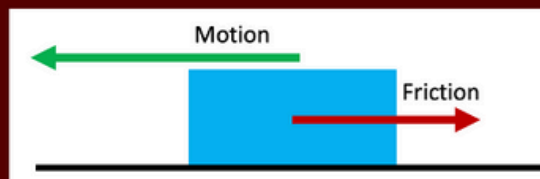


Save 70% and get the FULL Year Curriculum

Forces - Unit

- 5 weeks of teaching material
- 5 Lessons in Office and Google Format
- 6 Activities
- 2 Unit Tests with Answer Key
- 2 Quizzes with Answer Key
- Many Practice Worksheets

1. Forces Introduction
2. Newton's 3 Laws of Motion
3. Friction
4. Universal Gravitation
5. Ramps, Pulley's, and Forces



5 Complete Lessons

Force Introduction

- What is a Force?
- The Four Fundamentals Forces
 - Gravitational, Strong Nuclear, Electromagnetic, Weak Nuclear
- Force of Gravity
- Everyday Forces
 - Normal Force, Friction, Tension
- Action at a Distance Forces
- Measuring Force
- Free Body Diagrams
- Net Force
- Force Vectors



Newton's 3 Laws of Motion

- Newton's 3 Laws Summary
- Newton's First Law
 - Applications
- Newton's Second Law
 - Second Law Simulation
- Newton's Third Law
 - Applications
- Many opportunities for students to check their understanding



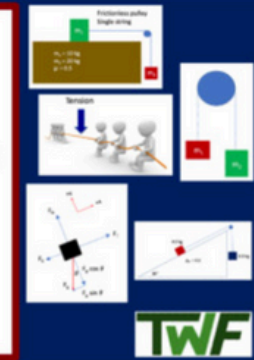
Friction

- What is friction and what causes it?
- Friction summary
- Friction and Newton's Laws
- Static and Kinetic Friction
- Coefficients of Friction
- Applications of Friction



Ramps, Pulleys and Forces

- Tension
- Pulleys
- Solving Atwood problems



Universal Gravitation

- Gravity in Space
- Law of Universal Gravitation
- The Power of Gravity
- How Gravity Affects the Tides
- Objects in Circular Orbit
- Our Bodies in Microgravity



TWF

Thank You For Your Interest

Inside the Unit

- 5 weeks of teaching material
- 9 lessons
- Office and Google versions of EACH lesson
- Teacher and student versions for each lesson
- Many videos and simulations embedded into the slides
- Student notes in Word and Google Doc

Friction

- Kinetic friction
- Static friction
- Air resistance (drag friction or fluid friction)
 - Parachutes greatly increase air resistance and therefore, slow skydivers quickly



Friction

Friction always opposes motion (or F_{net})

- Kinetic friction
- Static friction
- Air resistance (drag friction or fluid friction)
 - Parachutes greatly increase air resistance and therefore, slow skydivers quickly



Newton's Third Law of Motion

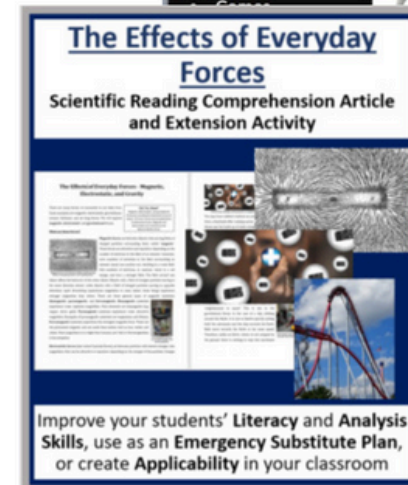
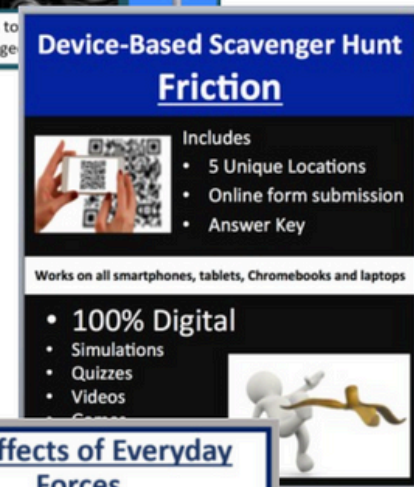
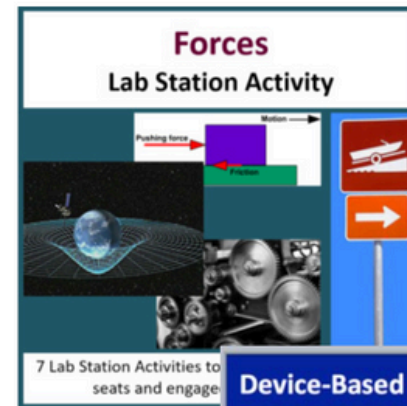
- For every action force, there is a simultaneous reaction force equal in magnitude but opposite in direction.
- For every action, there is an equal and opposite reaction
- When a balloon is inflated and released, air rushing from the open nozzle causes the balloon to fly off in the opposite direction



Thank You For Your Interest

Inside the Unit

- 2 Unit Test with Answer Key
- 2 Quizzes with Answer Key
- Newton's Laws of Motion Lab Station Activity
- How Planes Fly Lab Station Activity
- Newton's Laws Inquiry Video Activity
- Friction Digital Scavenger Hunt Activity
- The Effects of Everyday Forces - Reading Comprehension Article
- Forces Task Card Review Game



Digital Teaching Schedule

Forces Day-By-Day

You can access the day-by-day breakdown from the link below

<https://teachsciencewithfergy.com/teaching-forces-my-daily-schedule/>

Thank you for your purchase.

Devon – Teach With Fergy

Day 1:

- Teach – Lesson 1 – Forces Introduction
 - Complete Student Notes

Day 2:

- Acceleration due to Gravity – Free Fall – Inquiry Lab
 - I usually give students a few minutes the following day to complete it

Day 3:

- Teach Lesson 2 – Newton's 3 Laws of Motion – Part 1
 - Complete Student Notes
- HW:
 - Complete Acceleration due to Gravity – Free Fall – Inquiry Lab

Office and Google Versions

- This unit includes both Office and Google formats for ALL resources
- The lessons are in PowerPoint and Google Slides format while all documents contain Word and Google Doc versions
- Your resource is perfect for distance learning and integrates seamlessly with Google Classroom as I've included a link that will automatically create a copy of the resources and put them directly into your Google Drive with one click



Who is it for?

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

What You Get

Complete Lessons

- ✓ Make sure your students are on track
- ✓ Each lesson comes with a teacher and student version to keep them focused
- ✓ Lessons come with videos embedded right into your slides

Interactive Activities

- ✓ Lab Station Activity
- ✓ Digital Interactive Notebook
- ✓ Scientific readings





Save yourself
the **STRESS**
and time

Instead, Spend Your Time Wisely



Stimulate Student Interest and Spark Their Curiosity

**Develop Key Communication,
Collaboration, and Problem Solving Skills**



**Incorporate Technology and Increase
Collaboration**