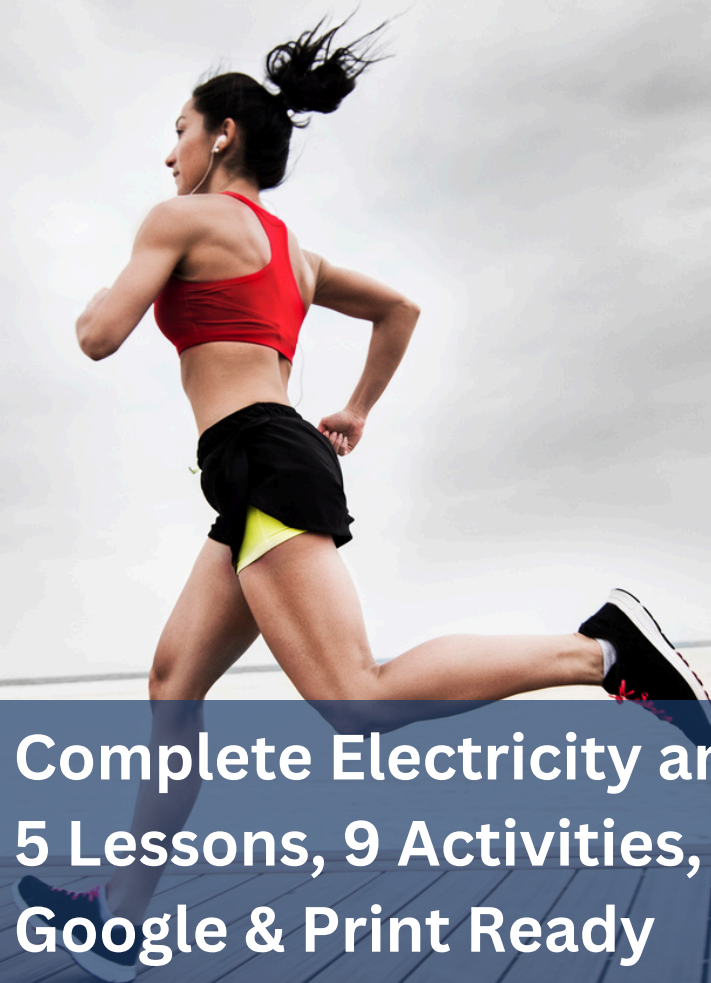


Motion (Kinematics) Unit



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

UPGRADE to the Bundle

Physics 1 Curriculum Bundle

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

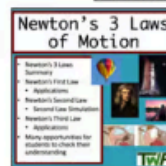


Complete Lessons

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

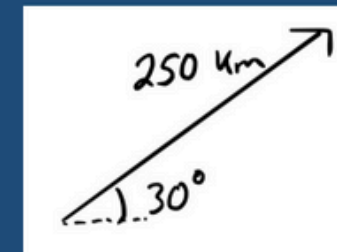
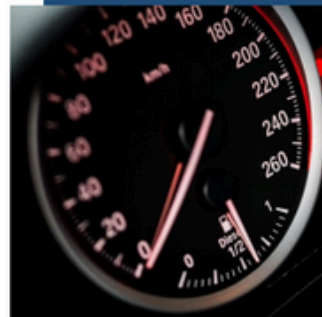
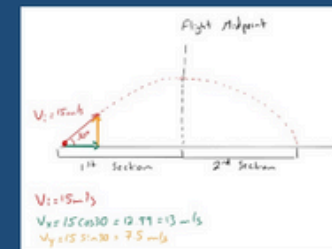
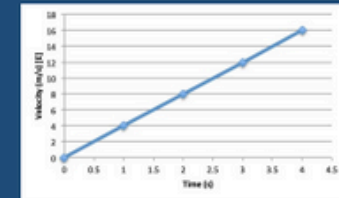


Save 70% and get the FULL Year Curriculum

Motion - Unit

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

1. One-Dimensional Motion
2. Two-Dimensional Motion and Vectors
3. Relative Motion
4. Acceleration
5. Projectile Motion



5 Complete Lessons

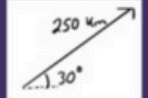
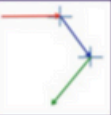
One-Dimensional Motion

- Motion terms
- Scalar quantities
- Average and instantaneous speed
- $v = d/t$
- One-dimensional motion
- Vectors and velocity
- Displacement and position
- Position Time and Velocity Time Graphs



Two-Dimensional Motion

- Uniform vs. Nonuniform motion
- Vectors
- X and Y vector components
- Vector component addition
- Practice



Relative Motion

- Relative motion
- Applications
- Boat Example
- Plane Example
- Practice Problems



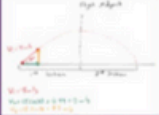
Acceleration

- Aircraft Carrier Catapult System
- Acceleration Overview
- Speeding up and Slowing Down
- Uniform vs. Nonuniform Acceleration
- Average Acceleration
- Constant Acceleration (P-T, V-T and A-T)
- Acceleration
- Practice questions



Projectile Motion

- Projectiles
- Gravity
- Tackling Projectile Motion Problems when $v_i = 0$
- Projectiles with v_i not equal to 0
- Answering more complex problems
- Practice



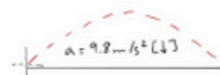
Lessons

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

Projectiles with upward v_i

- An upward v_i means that the projectile's initial path is at an angle above the horizontal and DOES NOT equal zero
- Projectiles travel with a parabolic trajectory because the downward force of gravity accelerates them _____



Velocity and Other Vector Quantities

- A vector quantity is a quantity with a magnitude and direction
- The direction is given in [square brackets].
 - I.e. Displacement, and velocity
 - I.e. 20 km/h [E]



Steam Power Catapult System on Aircraft Carriers



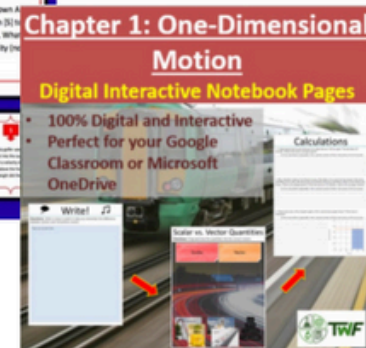
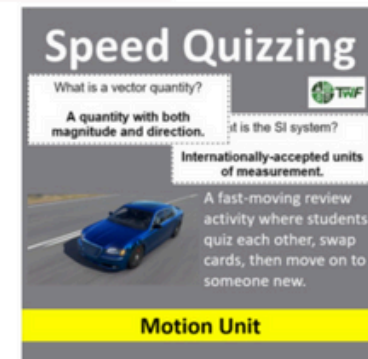
Aircraft carrier jets display some of the greatest accelerations you will see.

- Take-off: 0 km/h to 265 km/h in only 2.0 s
- Landing: 240 km/h $\rightarrow$ 0 km/h in 100 m

Activities and Projects

Inside the Unit

- 2 Unit Test with Answer Key
- 3 Quizzes with Answer Key
- Finding "g" Inquiry Lab
- One-Dimensional Motion Digital Interactive Notebook
- Acceleration Digital Scavenger Hunt Activity
- Motion Unit - Speed Quizzing
- Motion Task Card Review Game



Digital Teaching Schedule

Motion Day-By-Day

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

<https://teachsciencewithfergy.com/teaching-physics-my-day-by-day-schedule/>

Thank you for your purchase.

Devon – Teach With Fergy

Day 1:

- Teach – Lesson 1 – One Dimensional Motion – Part 1
- Complete Student Notes
- One-Dimensional Motion HW
- HW:
 - Any questions you didn't complete

Day 2:

- Teach – Lesson 1 – One Dimensional Motion Part 2
- Speed Challenge
- HW:
 - Complete Speed Challenge

Day 3:

- Teach – Lesson 2 – Two-Dimensional Motion Part 1
- Two-Dimensional Motion HW
- HW:
 - Complete Two-Dimensional Motion HW

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



**Google Classroom Ready
One-Click Google Slides Access**

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**