

Electricity and Magnetism 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

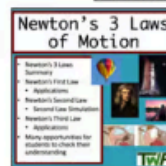


Complete Lessons

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



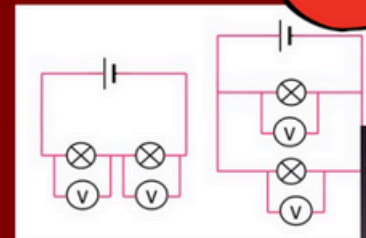
Save 70% and get the FULL Year Curriculum

Electricity and Magnetism Unit

- 5 weeks of teaching material
- 5 Lessons
- 1 Lab Station Activity
- 6 Reading Comprehension Activities
- 2 Digital Activities

Lessons Include:

1. Electricity Overview
2. Circuits
3. Magnetic Fields
4. Motors and Generators
5. Electrical Safety



5 Complete Lessons

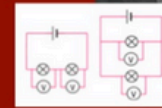
Electricity Overview

1. Applications of Electricity
2. History
3. Electrical Current
4. Direct Current (DC) vs. Alternating Current (AC)
5. Transformers
6. Electrical Potential
7. Resistance
8. Power and Energy
9. Electricity Cost



Circuits – Current, Voltage, and Resistance

- Circuits
 - Series and Parallel
 - Circuit Symbols
- Kirchhoff's laws
- Ohm's Law
- Solving Circuit Diagrams



Magnetic Fields

- Magnet Fields
- Law of Magnetic Poles
- Permanent vs. Temporary Magnets
- Earth's Magnetic Field
- Oersted's Principal
- The Right-Hand Rule
- Magnetism and Electricity
- Solenoids



Motors and Generators

- The Motor Principle
- The Right-Hand Rule
- AC Motors and Applications
- DC Motors
- Generators
- Electricity Generation
- Step-up and Step-down Transformers
- Conservation of Energy
- The Transformer Equation



Electrical Safety

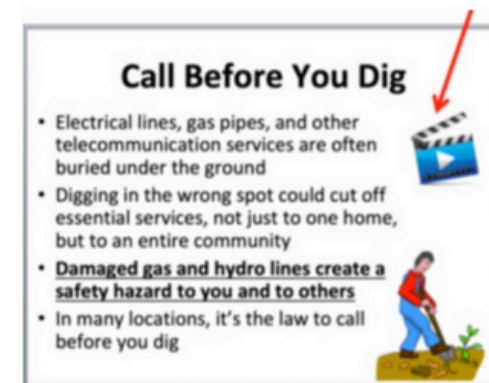
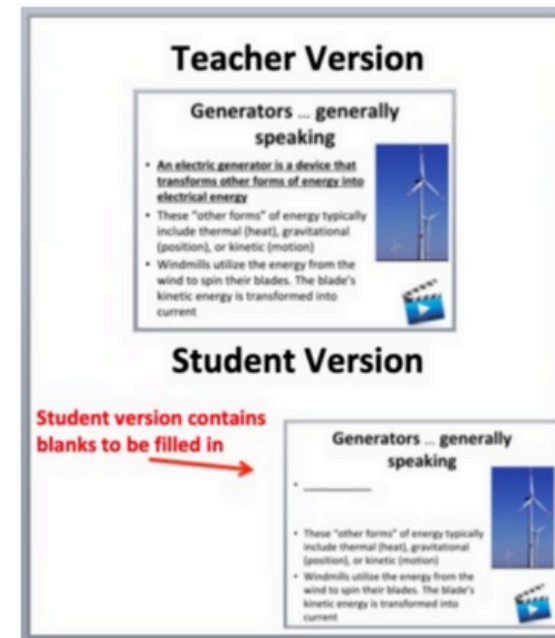
- Why Should We Know About Electrical Safety
- What can happen?
- Electrical Boxes and Circuit Breakers
- Fuses
- Grounding and Static Discharge
- Wall Outlets (Receptacles)
- GFCI
- Call Before You Dig
- Dangling Electrical Lines
- Safety Tips



Lessons

Inside the Unit

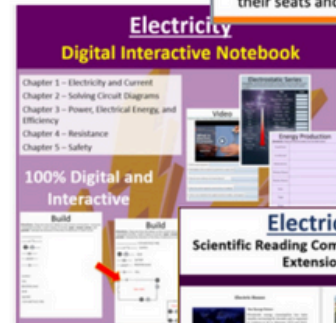
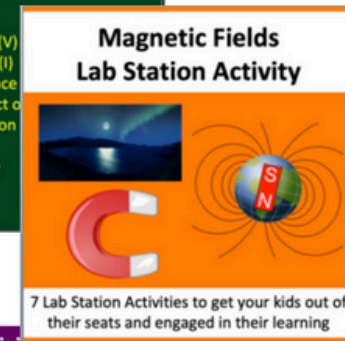
- 3-4 weeks of teaching material
- 5 lessons
- Office and Google versions of EACH lesson
- Teacher and student versions for each lesson
- Many videos and simulations embedded into the slides
- Student notes in Word and Google Doc



Activities and Projects

Aside from the lessons, the Unit also contains:

- 1 Unit Test and Quiz with Answer Key
- Magnetic Fields - Lab Station Activity
- 6 Science Comprehension Readings
- The Electric Home – PBL Activity
- Electric Circuits Online Lab
- Electricity - Digital INB Bundle



Digital Teaching Schedule

Electricity and Magnetism Day-By-Day

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

<https://teachsciencewithfergy.com/teaching-electricity-and-magnetism-my-daily-schedule/>

Thank you for your purchase.

Devon – Teach With Fergy

Day 1:

- Start class by watching the following video from SciShow – https://youtu.be/GMnsZuEE_m8
- Lesson 1 – Electricity Overview (Day 1)

Day 2:

- Lesson 1 – Electricity Overview (Day 2)
- Assign The Electric Home PBL Project
 - This project can be completed throughout the unit

Day 3:

- Lesson 2 – Circuits (Day 1)
- Drawing Circuit Diagrams Worksheet

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**