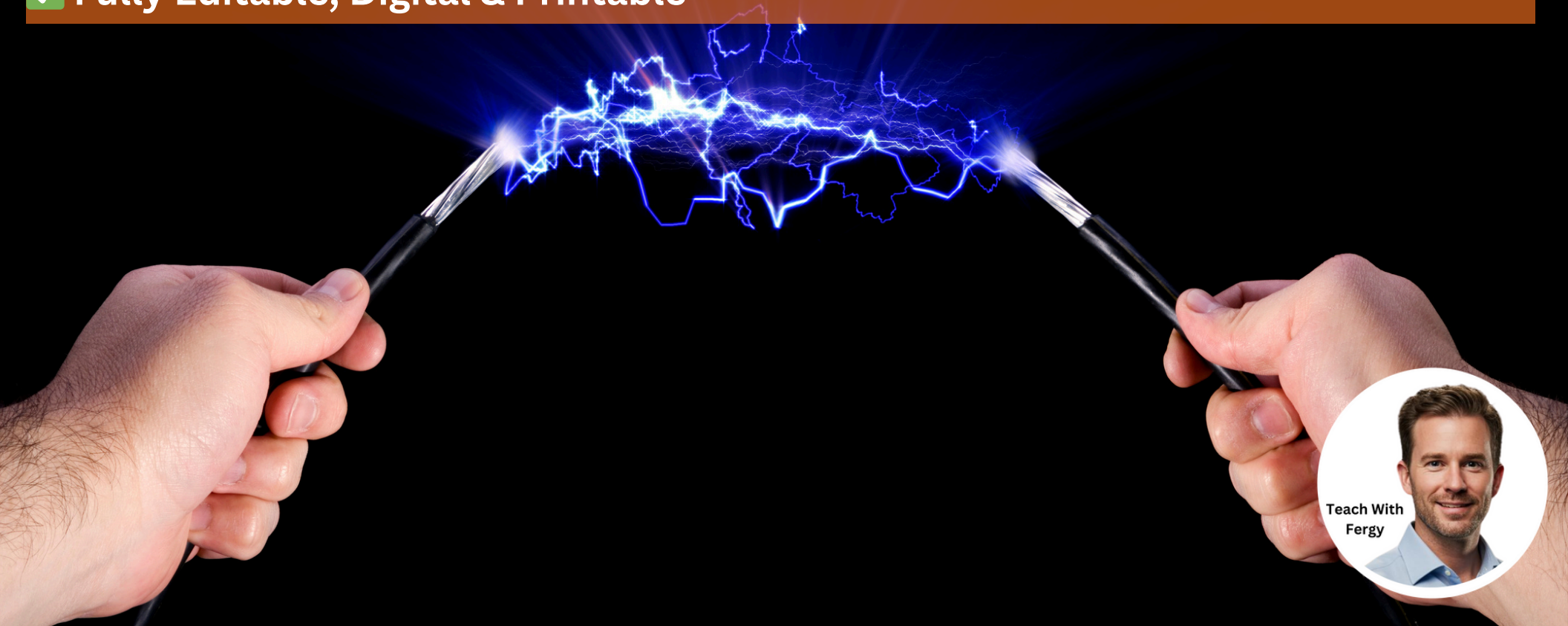


Static and Current Electricity Unit

- ✓ **Multi-format Activities:** Labs, scavenger hunts, readings, projects, and quizzes.
- ✓ **Student-Centered Learning:** Hands-on tasks, research, diagrams, videos, and comprehension questions.
- ✓ **Fully Editable, Digital & Printable**



Bundle Includes

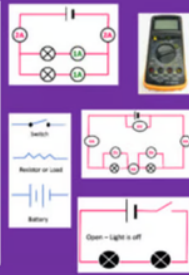
Electricity and Current

- What Electricity Is
- Atoms and Electrons
- Static Electricity
- Current Electricity
- Drawing Circuit Diagrams
- Parts of an Electric Circuit
- The Cell
- Open vs. Closed Circuits
- Electric Current
- Circuit Types
 - Series and Parallel
- Coulombs

Google Slides and PowerPoint Versions Included
Google Classroom Ready

Solving Circuits: Series and Parallel

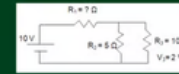
- Circuit Types and Symbols Review
- Measuring Current
- Measuring Voltage
- Circuits Review
- Switches
- Practice



This digital presentation includes both Google and Office resources and is [Google Classroom Ready](#)

Electric Circuits Online Lab

- Building circuits
- Measuring Voltage (V)
- Measuring Current (I)
- Calculating Resistance (R)
- Determine the effect of changing V, I and R on bulb brightness
- Calculation practice



Resistance

- Resistance
- Loads
- Insulators
- Conductors
- Superconductors
- Ohm's Law
- Power
- Calculating Total Resistance



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The Production of Electricity

- Non-Renewable Energy
- Fossil Fuels
- Nuclear Fission
- Renewable Energy
- Solar Electricity Production
- Future Solar Technology
- Wind Turbines and Farms
- Hydroelectric Power
- Geothermal
- Nuclear Fusion



This digital presentation includes both Google and Office resources and is [Google Classroom Ready](#)

Chapter 6: Electricity Production

Digital Interactive Notebook Pages

100% Digital and Interactive
Perfect for your Google Classroom or Microsoft OneDrive



Power, Electrical Energy, and Efficiency

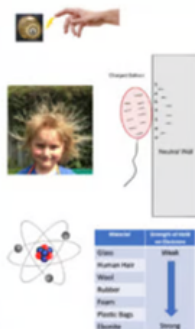
- Electrical Power
- Appliance Power Ratings
- Electrical Energy
- Time-Of-Use Energy Prices
- Electrical Efficiency



This digital presentation includes both Google and Office resources and is [Google Classroom Ready](#)

Static Electricity

- Parts of an Atom
- Neutral Objects
- Charged Objects
- Friction
- Law of Electric Charges
- Static and Hair
- The Electrostatic Series
- Sparks and Lightning



This digital presentation includes both Google and Office resources and is [Google Classroom Ready](#)

Electrostatic Charging and Applications

- Static Electricity Review
- Charging Through Friction and Contact
- Static Shocks
- Grounding
- Electrostatic Applications
- Lightning and Lightning Rods
- Tesla Coils



This digital presentation includes both Google and Office resources and is [Google Classroom Ready](#)

Static Electricity Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Teaching Timeline and Resources

Outlined and Explained

Static and Current Electricity Unit – Teaching Timeline

Day	TPT Resource Name	Focus
1	Electricity and Current Lesson	Introduce static vs. current electricity; review atoms, charge, conductors/insulators and Coulombs.
2	Solving Circuit Diagrams	Teach how to interpret and draw series & parallel circuits, identify voltage drops and current paths.
3	Electric Circuits Online Lab	Digital lab where students build virtual circuits to measure current and voltage changes under different configurations.
4	Electrical Resistance	Explain resistance, Ohm's law and how resistors affect current; include examples and practice problems.
5	Power & Electrical Energy	Cover power = IV, energy consumption calculations, and efficiency
6	Electricity Production Lesson	Students will learn about how electricity is made and the different methods we have to make it.
	Electricity Production Digital Interactive Notebook	Students will demonstrate their understanding of electricity production using a digital interactive notebook where they need to complete a variety of tasks.
7	Static Electricity – Electrostatics	Transition to static electricity: introduce charged particles, friction, law of electric charges, and the electrostatic series.
8	Static Electricity Applications	Explore charging through friction and contact, real-world uses and safety (lightning, grounding, painting, electrostatic precipitators, etc.).
9	Static Electricity Lab Station Activity	Students demonstrate their understanding of static electricity through 7 station activities.

Pacing: Plan one day per lesson or lab/activity. Start with five days on current electricity followed by electricity production and a digital interactive notebook activity. Then transition to static electricity with two lessons and a lab station activity.

Assessment: Use the handouts, lab passports and digital interactive notebook responses to check understanding. The resistance and power lessons include practice problems; the online lab and worksheets serve as formative or summative assessments.

Customization: All resources are editable.

Who is this Bundle for?

- **Science teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to engage their students.**
- **Teachers who don't have time to develop their own resources or organize what to teach and when.**