



Electricity

Grade Level: Kindergarten

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
The Nature of Science and Engineering The Practice of Science	Scientific inquiry...pose questions and investigate phenomena.	0.1.1.2.1	Use observations to develop an accurate description of a natural phenomenon and compare one's observations and descriptions with those of others.	Ch. 1 Project: Electricity in the Morning Activity: Electrical Appliances Ch. 2 Experiment: Sticky Balloon PixWriter: Write about Sticky Balloon
Physical Science Matter	Objects can be described in terms of the materials they are made of and their physical properties.	0.2.1.1.1	Sort objects in terms of color, size, shape, an texture, and communicate reasoning for the sorting system.	Ch. 1 Activity: Flashcard Sorting Ch. 4 Activity: Battery Display





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Grade Level: First

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
The Nature of Science and Engineering The Practice of Science	Scientists work as individuals and groups to investigate...evidence and communication with others.	1.1.1.1.1	When asked “How do you know?”, students support their answer with observations.	Ch. 1 Experiment: Sticky Balloon PixWriter: Write About Sticky Balloon
The Nature of Science and Engineering Interactions Among Science, Technology...& Society	Designed and natural systems exist in the world.components that act within a system and interact with other systems.	1.1.3.1.1	Observe that many living and nonliving things are made of parts and that if a part is missing or broken, they may not function properly.	Ch. 2 Activity: Electricity in the Morning
	Men and women throughout history...have been involved in engineering design and scientific inquiry	1.1.3.2.1	Recognize that tools are used by people, including scientists and engineers, to gather information and solve problems.	Ch. 1 Lesson: “Learning About Electricity” Easy Reader: <u>When the Electricity Went Out</u> PixWriter: Easy Retell Project: Electrical Appliances Activity: Batteries Ch. 2 Lesson: “History” PixWriter: History Retell Project: Class Book Easy Reader: <u>Benjamin Franklin</u> PixWriter: Franklin Retell





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Grade Level: Second

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
The Nature of Science and Engineering The Practice of Science	Scientific inquiry.... used to pose questions about the natural world and investigate phenomena.	2.1.1.2.1	Raise questions...and seek answers by making careful observations... and sharing with others.	Ch. 1 Experiment: Hair Raising PixWriter: Static Electricity Ch. 4 Project: How Many Circuits? PixWriter: Write About How Many Ch. 5 Activity: Electricity in Your Home
		2.1.2.2.3	Explain how engineered or designed items from everyday life benefit people.	Ch. 1 Lesson: "Introduction to Electricity" PixWriter: Retell Learning Lesson Project: Electrical Appliances Activity: Electricity in the Morning Ch. 2 Lesson: "History of Electricity" PixWriter: Life Long Ago Easy Reader: <u>Benjamin Franklin</u> PixWriter: Franklin Retell Project: Class Book Ch. 3 Activity: Battery Display PixWriter: Why Batteries?





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Grade Level: Third

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
<p>The Nature of Science and Engineering</p> <p>The Practice of Science</p>	<p>Scientific inquiry... used to pose questions...and investigate phenomena.</p>	<p>3.1.1.2.3</p> <p>3.1.1.2.4</p>	<p>Maintain a record of observations, procedures, and explanations.....</p>	<p>Ch. 1 Experiment: Sticky Balloon PixWriter: Write About Sticky Balloon</p> <p>Ch. 4 Activity: How Many Circuits? PixWriter: Write About How Many</p> <p>Ch. 5 Activity: Electricity in Your Home</p>
<p>The Nature of Science and Engineering</p> <p>Interactions Among Science ... and Society</p>	<p>Men and women throughout history...have been involved in engineering design and scientific inquiry.</p>	<p>3.1.3.2.2</p>	<p>Recognize that the practice of science and/or engineering involves many different kinds of work and engages men and women of all ages and backgrounds.</p>	<p>Ch. 1 Lesson: "Introduction to Electricity" PixWriter: Learning Chapter Retell</p> <p>Ch. 4 Activity: How Many Circuits? PixWriter: Write About How Many</p>
	<p>Tools and mathematics help scientists... see more, measure more accurately, and do things....</p>	<p>3.1.3.4.1</p>	<p>Use tools, including rulers, thermometers, magnifiers and simple balances to improve observations and keep a record of the observations made.</p>	<p>Ch. 3 Experiment: Conduct/Insulate</p> <p>Ch. 4 Experiment: Simple Circuit PixWriter: Write Simple Circuit</p> <p>Ch. 5 Experiment: Magnetic Force PixWriter: Write About Magnetic Force</p>





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Grade Level: Fourth

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
The Nature of Science and Engineering Interactions Among Science...and Society	The needs of any society influence the technologies that are developed and how they are used.	4.1.3.3.1	Describe a situation in which one invention led to other inventions.	Ch. 2 Lesson: "History" PixWriter: History Retell Easy Reader: Benjamin Franklin PixWriter: Franklin Retell Activity: Class Book
Physical Science Energy	Energy appears in different forms, including heat and electromagnetism.	4.2.3.1.3	Compare materials that are conductors and insulators of heat and/or electricity	Ch. 3 Lesson: "Conductors and Insulators" Easy Read: <u>Conductors & Insulators</u> PixWriter: Easy Reader Retell Activity: Sort Conduct/Insulate Experiment: Conduct/Insulate Activity: Conduct/Insulate Chart
	Energy can be transformed within a system or transferred to other systems or the environment.	4.2.3.2.2	Construct a simple electrical circuit using wires, batteries and light bulbs.	Ch. 4 Lesson: "Circuits" PixWriter: Circuits Chapter Retell Easy Reader: <u>Circuits: Light, Heat, Sound, Motors</u> PixWriter: Easy Reader Retell Experiment: Simple Circuit PixWriter: Experiment Retell Activity: Make a Simple Circuit
		4.2.3.2.3	Demonstrate how an electric current can produce a magnetic force.	Ch. 5 Lesson: "Electricity and Electromagnets" PixWriter: Retell Electromagnet Chap. Easy Reader: <u>Electricity & Magnetism in Our Lives</u> PixWriter: Easy ElectroM Retell Experiment: Electromagnet PixWriter: Electromagnet Report





Electricity

Grade Level: Fifth

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
There are no Standards for Electricity at the Fifth Grade Level.				



Electricity

Grade Level: Sixth

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
Physical Science Energy	Energy can be transformed... or transferred...	6.2.3.2.3	Describe how energy is transferred in conduction, convection and radiation.	Ch. 3 Lesson: "Conductors & Insulators" Easy Reader: <u>Conductors & Insulators</u> PixWriter: Conductors / Insulators PixWriter: Easy Conductors Retell Game: Electricity! Electricity! Activity: Conduct/Insulate Flashcards Experiment: Conduct/Insulate





Grade Level: Seventh

Electricity

Strand and Substrand	Standard	Code	Benchmark	Energy Correspondence
There are no Standards for Electricity at the Seventh Grade Level.				



Grade Level: Eighth

Electricity

Strand and Substrand	Standard	Code	Benchmark	Electricity Correspondence
The Nature of Science and Engineering Interactions Among Science...and Society	Men and women throughout the history of all cultures....have been involved in engineering design and scientific inquiry.	8.1.3.2.1	Describe examples of important contributions to the advancement of science...made by individuals....at different times in history.	Ch. 2 Lesson: "History of Electricity" PixrWriter: History Chapter Retell Easy Reader: Benjamin Franklin PixWriter: Franklin Retell Activity: Sequence Sentence Strips

