



Dear Educator,

This file offers views of some of the worksheets in our “**Electricity**” thematic unit. The cover for an eWorkbook is shown followed by the preview pages.

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Electricity

Scientists have learned that electricity is an energy.

- 1. It has a negative charge that pushes things apart.**
- 2. It has a positive charge that pulls things together.**

Many years ago people did not know about electricity. They didn't have electricity in their homes. There were no electrical appliances such as: radios, television sets, toasters, lights, computers, refrigerators, and microwaves.



The word electricity is the Greek word for amber. More than two thousand years ago some men in ancient Greece noticed electricity.

The Greek men found that when they rubbed pieces of cloth on amber it would cause sparks. It also caused feathers and small bits of wood to draw to the amber, almost like magnet. They could not explain what was happening.

Hundreds of years later many English scientists began studying more about ambers. From that time on scientists from Germany, Italy, England, and other countries learned more and more about electricity.



Scientists have learned that electricity is an energy. It has a negative charge that pushes things apart. It has a positive charge that pulls things together.

Electricity

Many scientists were studying about magnets and electricity. They learned how to make electromagnets. The power on an electromagnet can be turned on or off. When the power is on it acts as a magnet. When the power is off it is no longer a magnet.



A simple electromagnet can be made by wrapping or coiling wire around an iron bar. When each end of the wire is attached to a battery, the electricity from the battery flows through the wire.

The coiled wire becomes an electromagnet. It acts just like a magnet. The second the flow of electricity stops the coiled wire is no longer a magnet.



When the electromagnet is working it draws things to it just like a magnet. When it is turned off it releases the objects. In this way the electromagnet can make other things move.

An electromagnet picks up an object that is attracted to a magnet and it lets it go.

Read each sentence. Fill in the missing words below.

1. The power of an _____ magnet can be turned off and on.
2. A simple electromagnet can be made by wrapping wire around an _____ bar.
3. An electromagnet picks up an object that is attracted to a _____ and lets it go.

Electricity

CRISS CROSS

Can you fit these words into the criss cross?
Use a pencil so you can erase if you need to.

electric
plug

magnet
charge

fire
atoms

energy
battery

