

Science Study Guide Chapter13 Test on 2/20

Negative particles gather near the bottom of cloud before energy is released as lightning.

Electrical energy is produced when a coiled wire is spun around a magnet.

After Michael Faraday discovered that changing a magnetic field created an electrical current in a wire, he shared his investigation with other scientists.

The strength of an electromagnet can be increased by using more turns in the metal coil.

In a doorbell, electromagnets help convert electric energy to magnetic energy to mechanical energy,

A compass needle points in a north-south direction because the needle reacts to Earth's magnetic poles.

In a series circuit of light bulbs, all light bulbs will go out if one of them does.

When positive and negative charges no longer balance static electricity is created.

A positively charged object repels a positively charged object.

A good conductor for a closed circuit is copper.

A magnetic field is the strongest at both poles.

An insulator is a poor conductor of an electric current.

Explain what happens to a magnet's poles if it is broken into two parts? What poles will seek each other on the two magnet parts?

Do modern homes use electricity that is arranged in a series circuit or in parallel circuits? Explain your reasoning.