Energy is something that makes something else change or move.

Work happens when a force moves an object.

Seven forms of energy

Mechanical - energy in movement, one thing moving another

Chemical - energy produced in a chemical reaction

Heat - energy that moves tiny particles (atoms) in matter

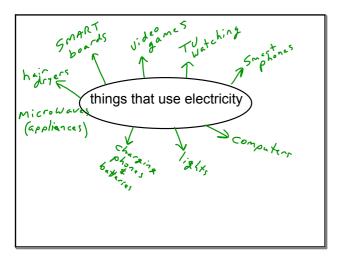
Light - energy that travels in waves, can move through empty space

Electrical - energy in electrical current, comes from electrical charges

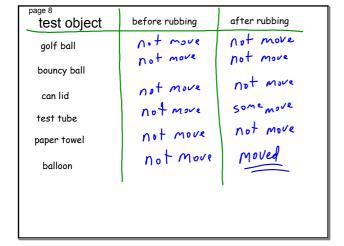
Sound - energy of vibrations in matter

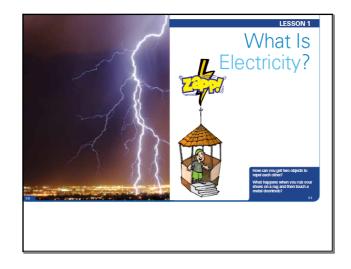
Nuclear/atomic - energy that is in atoms, it is released when atoms break apart or join together

Apr 13-8:44 AM

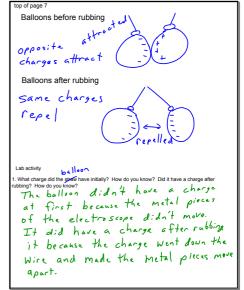


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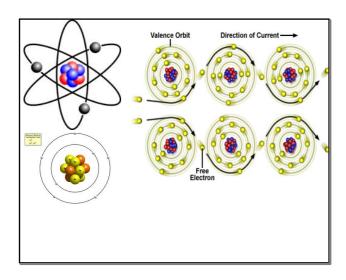
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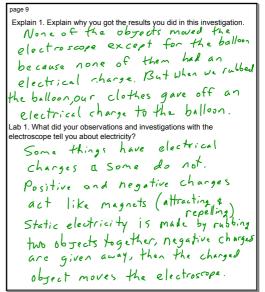
Apr 16-8:40 AM

TEST What happened when you moved the straw close to the electroscope? CONCLUDE Is the straw electrically charged? Explain your thinking. PREDICT What will happen if you rub the straw with a paper towel? Will it repel or attract? Explain your thinking. TEST What happened when you moved the straw close to the electroscope? CONCLUDE Is the straw electrically charged? Why? Explain your thinking.
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CONCLUDE Is the straw electrically charged? Why? Explain your thinking.
is the straw electrically charged? Why? Explain your thinking.
PREDICT
What will happen if you bring tape close to the electroscope? Will it repel or attract? Explain your thinking.

Apr 16-8:32 AM Apr 16-10:16 AM



Apr 15-7:26 AM



Apr 17-8:35 AM

page 10 vocabulary

- 1. Explain what attract and repel mean, using one of the class activities as an example.
 - Attract means to come together, like the balloons that were rubbed against each other. Repel means to push away, like the balloons that were both rubbed on a pant leg.
- 2. What does it mean for an object to have a charge?
 - To have a charge means that something has given away or picked up extra electrons. Extra electrons gives a negative charge, less electrons gives a positive charge.
- 3. How does an electroscope help you understand whether a material is charged?
 When something has a charge and you hold it near the wire on the electroscope, the charge is passed down the wire and the aluminum foil pieces move apart because they both have that same charge.

Apr 15-8:02 PM

Apr 15-8:02 PM