

ELECTRICITY AND MAGNETISM

Name: _____ Date: _____

LT: I can record the key information from a documentary.

Electricity

1. Electricity is the flow of _____.
2. Electrons flow in a closed path called an electrical _____.
3. Electricity will only flow if the circuit is _____.
4. A _____ is something between a conductor and an insulator. It lets some electrons flow through it.
5. Electrical circuits have pressure known as _____. The higher the _____ the more electrons want to "jump".
6. The number of electrons flowing through a wire is known as the _____ or _____.
7. The combination of voltage and amps is _____.
8. Electrons get pushed by _____ reactions or by _____.
9. Why would it be worse for your health to put two hands into a tank of water with an electric eel rather than just one hand?
10. To make electricity with a magnet and a coil of wire, either the magnet or the coil has to be _____. This makes _____ current.
11. When we make electricity with a battery, it only flows in _____ direction. It is called _____ current.
12. All electrical plugs have _____ prongs so they can create a _____.

Magnetism

1. Magnetism comes from _____ found in the Earth. The most common mineral that can be made into a magnet is _____.
2. Only 3 things can stick to magnets: _____, _____, and _____.
3. Magnetism comes from moving _____ (electricity).
4. The Earth is a big _____. The Earth is full of melted _____ and _____. The spin of the Earth makes electrons flow in huge loops creating a _____ field.

5. How do magnets interact in a similar way to electric charges?
6. In a magnet made of iron, the electrons are all _____ up so the magnet has two ends (north pole and south pole).
7. An _____ uses a big magnetic to take pictures inside the human body.
8. Structures made of _____ (which contain mostly iron) are magnetic.
9. Whenever electricity is flowing, a _____ forms.
10. Earth's magnetic field is strongest at the _____.
11. What are some examples of other objects in space that have magnetic fields?

12. What are examples of animals that can use Earth's magnetic field to navigate?

Summary

1. Why are electrons key to electricity and magnetism?

2. How are magnetic and electric fields similar?

3. What role does electricity play in your life?

4. What role does magnetism play in your life?