

# **Electricity Unit Notes**

## **Static Electricity**

- Static electricity is the buildup of electrical charges on an object
- All matter is made up of atoms
- Inside atoms are protons, electrons and neutrons
- Protons are positively charged; electrons are negatively charged and neutrons are neutral
- When there is an imbalance of an electrical charge, static electricity is resulted
- Electrostatic is the science of static electricity
- To create a buildup, electrons are required to move from one object to another
- When you rub a balloon against hair all the negative electrons move to the balloon and leaves the hair with positive protons
- When you rub two objects together and create a static charge it is called charging by friction
- When an object is positively charged it contains less electrons and an object that is negatively charged contains more electrons
- Protons cannot be removed
- When a negatively charged object is placed against a neutral charged object, it attracts positive protons
- Two balloons rubbing against each other, accumulate a lot of electrons and both become negatively charged and shoes that like charges repel
- An object with a higher electron affinity will attract more electrons

## **Laws of Electric Charges**

- Opposite charges attract
- Like charges repel
- Neutral objects attract charged objects

## **Current Electricity**

- Current electricity is continuous movement of electrons from one point to another
- A circuit is a closed loop which electricity flows through
- A series circuit is a circuit with one pathway of electric flow
- A parallel circuit is a circuit with many pathways of electric flow
- Circuits have four components
  1. Source
    - Is a source of electrical energy
    - A cell or battery is an example
  2. Load
    - Is an electrical load, that converts electrical energy into a different form of energy
    - Examples can be a light bulb, blender, speaker
  3. Conducting Wire

# Grade 9 Science Electricity Unit Test And Answer Key

**National Science Foundation (U.S.)**



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