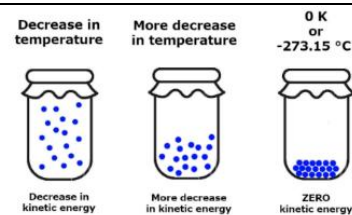


LESSON 6 SS WORKSHEET SCENIC SCIENCE

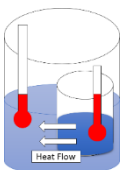
ANSWERS: _____
INITIALS: _____

ENERGY TRANSFER

Any object above 0 Kelvin, absolute zero, has kinetic or heat energy. Zero Kelvin is based on freezing temperatures of everything in the universe while Celsius is based on the freezing temperature of water.



1. Heat naturally flows from: **hot → cold** or **cold → hot**



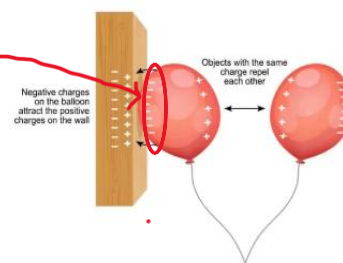
2. Density naturally flows from **high → low** or **low → high**

3. What is absolute zero in: Kelvin **0 K** Celsius **-273.15°C**

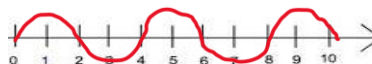
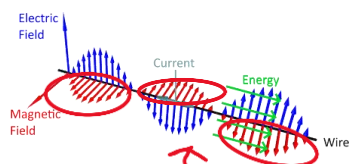
ELECTRICITY

Electricity uses electron energy to power our homes. Static electricity is caused by moving electrons! Static electricity has negative and positive charges much like magnets.

1. Where are the **8 electrons (-)** located that are causing the balloon to stick to the wall? Circle 8 electrons →



2. Electric wires use copper because copper's electron energy (green) easily flows on wire strands. The electric field moves up and down like an "s" curve. Draw an electric field pattern on the number line below.

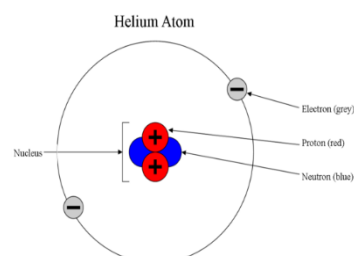


3. Electric motors use magnets to keep pushing an electron charge. Circle the magnetic field on the image above.

4. Magnets work with electric currents because both attract or repel charges (+ & -).

REPEL HAPPENS WITH **- & -** and **+ & +**

ATTRACTS ONLY WITH **+ & -**



5. Atoms contain negative:

electrons

and nucleus parts:

protons (+)

neutrons (no charge)

