

Name: _____

Date: _____

Unit 1 – Physical Science – Study Guide

Directions: Write the definitions; use your notes or the textbook.

Energy - _____

Motion - _____

Transfer - _____

Vibration - _____

Transform - _____

Light - _____

Thermal Energy - _____

Electrical Energy - _____

Electric Current - _____

Electric Circuit - _____

Energy of Motion - _____

Directions: Fill in the blanks. Use your notes, the textbook and context clues to help you.

The ability to do work or cause change is _____. When an object is moving through space we say it is in _____. The faster an object is moving the _____ the energy it possess. The slower an object is moving the _____ energy it possess. When objects collide with other objects the energy changes and the object may change _____.

Energy that we can see is _____ energy. It is unique because it can travel through _____. Light energy can also be _____ or given from one object to another. When the sun shines on something, it can make it _____, or raise the temperature.

When objects _____ they move back and forth very quickly. That movement causes _____. It happens because the _____ in the air bounce and knock into each other. That is how the sound _____.

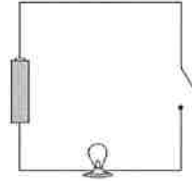
A _____ is a path for electricity to flow through. Electricity flows from the _____ side of a battery. It goes to the _____ or object using the energy. The it travels back through a wire to the _____ side of the battery. The metal is a _____ because electricity flows through it easily. The plastic or rubber on the outside of the wire is an _____.



Directions: Identify each as true or false.

Light energy can transfer to the sidewalk and warm it up. _____

A speaker causes the air to vibrate. _____



The open switch in this circuit means that electricity is flowing _____

Electricity can travel through empty space. _____

Mr. Wolfe swinging a golf club as hard as he can gives the club a high speed and high energy of motion. _____

Directions: Write your answer to the follow questions in complete sentences.

Runner	Top speed
Mike	15 MPH
Matt	12 MPH
Tara	14 MPH
John	8 MPH

Which runner when running at their top speed has the most energy? Why?

Where does our energy come from and how does it get to our house?
