

Heading:\_\_\_\_\_

## Energy Study Guide

Energ	iλ;		
*	resources are able to be replenished or replaced. Examples		
	include:		
	O		
	O		
*	resources CANNOT be replaced such as oil, coal, and natural gas.		
	Once they have been used they are gone. We call these things		
*	Energy can take many forms. List an item that can transfer energy from electricity into		
	the following forms of energy.		
	<ul> <li>A changes electrical energy to heat energy.</li> </ul>		
	<ul> <li>A changes electrical energy to motion/kinetic energy.</li> </ul>		
*	When systems are there is no movement.		
*	In order to see you must have some energy enter your eyes.		
*	Light travels in		
*	As objects are raised higher there is more energy between the		
	object and the ground.		
*	When two objects there is a transfer of energy.		
*	Changing the <b>amplitude</b> of a wave changes the of a sound.		
*	The is the distance between one wave's crest and the next		
	wave's crest.		
*	Radios use wave for different stations.		

## <u>Circuits</u>:

In a circuit, energy flows out of the	terminal of the D-cell,	
through the wires and energy receiver, and return	s to the	
terminal.		
What could be evidence that energy is flowing three	ough a circuit?	
0		
0		
0		
• A D-Cell, or battery, is an energy (it :	supplies electrical energy) in a circuit.	
A wire electrical energy in a circuit.		
• A light bulb or motor is an energy	that uses the electric power in a	
circuit.		
A switch		
Magnetism:		
• Opposite poles; same poles		
	<b>▲ →</b>	
Magnets stick only to objects made of	or	
<u>Electromagnets</u> :		
<ul> <li>Electromagnets are a type of</li> </ul>	magnet that can be turned of	
and on.		

The core of an electromagnet must be made of \_\_\_\_\_\_.