Matter & Energy

Vocabulary:



- 1. kinetic energy: the energy of any moving object
- 2. potential energy: stored energy

3. conduction: the passing of heat through a material while the material itself stays in place

4. convection: the flow of heat through a liquid or a gas, causing hot parts to rise and cooler parts to sink

5. radiation: the transfer of heat through electromagnetic rays

What is Electrical Energy?		2		
1. A battery provides	energy			
2. The chemical reactions in a bo of which carries energy.	attery produce	, each		
 When a battery is connected to a light bulb with wired, a(n) is formed. 				
4. When electrons in a circuit pass through a light bulb, they give up some of their energy to the wire in the light bulb, called the				
5. The flow each second.	_ measures amps, tellin	ng us how many electrons		
6. The	_ measures volts.			
What Are Other Forms of Energy?				
7. Energy is a measure of how m produce.	uch	something can		
8. Work is using	to move an	object.		
electrical	ammeter	electrons		
closed circuit	filament			
forces	voltmeter	work		

9.	Energy is not a type of		_ ·		
10). Any object that is moving has	3	energy.		
11	. Stored energy is referred to	as	energy.		
12	12. The transfer of thermal energy from one object to another is				
	. Heat always flows from		materials to cooler		
	aterials, never the other way. ow Does Heat Move?				
	. In irticles vibrate.	_ , thermal energy f	flows through objects as their		
	5. In hot parts of a material rise while cooler parts ink.				
16. Heat transferred through electromagnetic rays in					
	conduction	potential	hotter		

radiation

matter

heat

convection

kinetic

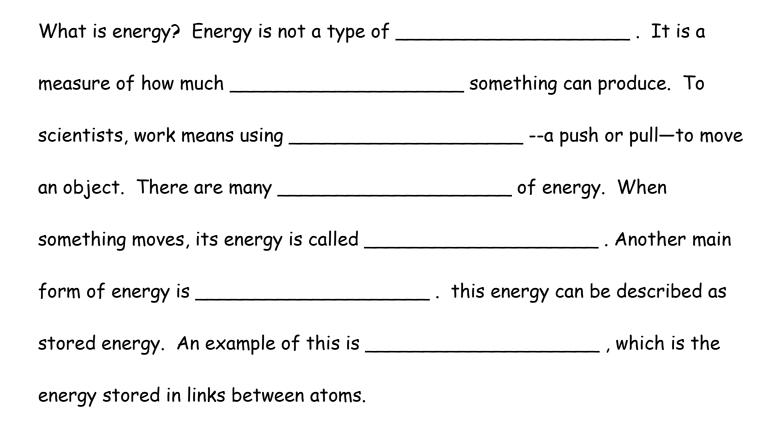
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What Materials Conduct Heat Well?

17. Metals are the best ______ of heat.

18. The molecules in ______ are packed very closely together, and this makes transferring energy easier.

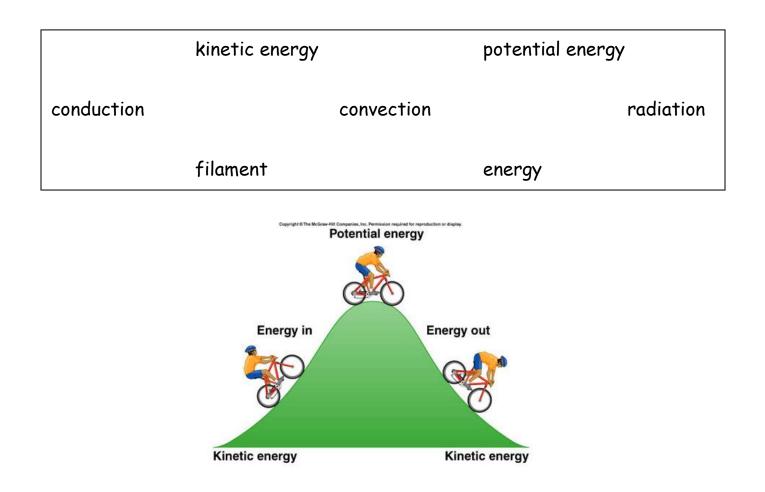
Fill in the blanks



chemical energy	potential energy	kinetic energy
forms	force	work
matter	solids	conductors

Vocabulary

 _ the ability to move matter around	
 when hot parts of a material rise, while cooler parts sink	
 the energy of a moving object	
 a thin wire in a bulb	
 energy stored in an object or material	
 when heat is transferred through electromagnetic rays	
 movement of energy from a hot object that come into contact with	
a cooler object; the material remains in place	



Correct-a-Word

potential	emulsion	mass
kinetic	volume	physical
boiling	radiation	gel

One word in each sentence below is wrong. Cross it out and write the correct word above it. One has been done for you. Use the word box to check your spelling.

mass

1. The amount of matter in an object is its density.

- 2. The energy of any moving object is kindling energy.
- 3. The vacuum describes how much space a sample of matter takes up.
- 4. A gem is a solid spread through a liquid.
- 5. The melting point is when a substance changes from liquid to gas.
- 6. In a physics change, matter changes in size, shape, or state without also changing identity.
- 7. One liquid is spread through another in an emotion.
- 8. Stored energy is pretentious energy
- 9. The giving off of electromagnetic rays through space is radical.