## Heat Webquest

Go to http://utah.pbslearningmedia.org/resource/lsps07-sci-phys-thermalenergy/thermal-energy-transfer/

Click on the LAUNCH button. Introduction 1. Heat moves from warmer to cooler areas through the transfer of \_\_\_\_\_\_\_. Overview 2. What happens to the speed of the green particles as the temperature gets 3. The energy of motion is known as \_\_\_\_\_\_ energy. 4. Thermal energy "flows" from \_\_\_\_\_ areas to \_\_\_\_\_ areas. Conduction 5. Some materials, such as \_\_\_\_\_ are better than others at conducting thermal energy. 6. Push the "play" button. In what direction do the particles turn red with heat? Convection transfers thermal energy by the movements of fluids. 7. Push the "play" button. What happens to the temperature of the currents as they move up? What happens to the temperature of the currents as they move Radiation 10. Radiation transfers thermal energy through \_\_\_\_\_\_\_. 11. Push the "play" button for radiation. 12. All objects \_\_\_\_\_ and \_\_\_\_\_ thermal radiation. The Sun Warms Earth 13. Most conduction occurs at Earth's \_\_\_\_\_ 14. \_\_\_\_\_ currents in the atmosphere distribute thermal energy around Earth. 15. Global \_\_\_\_\_ circulation also distributes thermal energy around Earth. 16. What is Earth's main source of thermal energy?

17.	. Why is a tree twig a better choice than a metal rod for roasting marshmallows?  . Where does the warmth you feel when sitting near a campfire come from?				
18.					
Staying	Cool on a Hot Day				
19.	Your body loses thermal energy to the environment by				
Solar En	ergy in Your Home				
20.	A home loses thermal energy to the colder outdoors by Through the walls, windows, and roof.				
Go to <u>https://ww</u>	w.lowes.com/cd_Understand+Heat+Transfer+and+Insulation_974680410_				
After you read thi	s article, list 5 ways in which you can protect your home from heat escaping or too much heat coming in				
	1-				
	2- 3-				
	4-				
	5-				
Go to https://ww	w.energystar.gov/index.cfm?fuseaction=popuptool.atHome				
Look in the rooms	on how to save energy. List 10 ways in which you can save heat energy in your home.				
1-					
2-					
3-					
4-					
5-					
6-					
7-					
8-					
9-					
1N-					

Around a Campfire

10-