

## HEAT

1. How does thermal energy travel through objects?  
It travels from a colder object to a hotter one.  
It travels from a hotter object to a colder one.
2. How does thermal energy travel through objects?  
By conductors and insulators.  
By conduction, convection and radiation.
3. Convection occurs when...  
Two objects are in contact and thermal energy is transferred from one object to the other.  
Thermal energy is transferred by the movement of fluid.
4. What material is a thermal conductor?  
Metal  
Paper
5. What material is a thermal insulator?  
Water  
Wood
6. What are the effects of thermal energy?  
Melting, chemical changes, expansion, evaporation.  
Melting, evaporation, radiation, expansion.
7. Melting occurs when...  
A solid changes into a gas.  
A solid changes into a liquid.
8. Evaporation occurs when...  
A liquid changes into a gas  
A solid changes into a gas.
9. Thermal energy can cause permanent changes to materials.  
True  
False
10. In expansion, thermal energy causes...  
The molecules in a solid, liquid or gas to vibrate.  
The molecules in a solid or gas to vibrate.