

# Transferring Energy

Name \_\_\_\_\_

1. Heat can be transferred by conduction. What does conduction mean?
2. Which would be the best conductor of heat, a nail or a wooden stick? \_\_\_\_\_ Why?
3. Why does the animation show it's best to wear a mitt when lifting a hot pan?
4. When heat is transferred by the flow of molecules in a liquid or gas, what is it called?  
\_\_\_\_\_
5. What does convection and conduction have in common (besides the transfer of heat)?
6. What kind of energy transfer can take place through empty space? \_\_\_\_\_
7. Which one of the three types of heat transfer is used to warm this room in the winter?  
\_\_\_\_\_ Which type of heat transfer is used to warm the area around a  
campfire? \_\_\_\_\_
8. Below, draw a Venn diagram to compare and contrast all three types of heat transfer.

