In each of the following situations, identify the method of heat transfer taking place (conduction, convection, radiation). More than one process may be occurring.

1. Hot coffee is stirred with a spoon, the spoon gets hot due to			
2. A chair is placed several feet from a fire in a fireplace. The fireplace has a glass screen. The			
side of the chair facing the fireplace gets warm because of			
3. A certain type of decorative lamp contains colored liquids. These liquids form globs that break			
off and rise to the top of the liquid. The globs rise due to			
4. Near the ceiling of a room the air is warmer. The warm air rises because of			
5. A college student holds the back of his hand near an iron to see if it is hot. Heat is transferred			
to his hand by			
6. A heater is placed under one corner of a water bed mattress. Warm water moves throughout			
the mattress because of			
7. A certain type of stainless steel cookware has a layer of copper applied to the bottom to help it			
heat evenly. The copper transfers heat to the pan by			
8. In a swimming pool, the water near the surface is slightly warmer. The warm water rises			
because of			
9. One end of a copper rod is placed in a flame of a Bunsen burner. Small pieces of wax placed			
along the rod melt at progressively larger distance from the flame. Heat is transferred through			
the rod by			
10. A house burns down. On the house across the street, all of the vinyl siding is twisted and			
warped by the heat. The heat was transferred across the street by			
11. Warm air over the beach rises while cooler dense air from the ocean rushes in due to			
12. The metal skewer gets so hot that you drop your marshmallow in the campfire because of			
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13. A huge rock at the state park gets so hot during the day that you can't sit on it from			
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14. You lay on that same rock at night so that you can keep warm by			
15. A fireman feels a door and it is hot from the fire on the other side due to			
16. The cause of weather systems on earth is			
17. You are in the top bunk of a bunk bed and you want to turn the air conditioner on while your			
friend on the bottom bunk is fine is caused by			

In the boxes below, draw an example of each type of heat transfer. Explain how heat is being transferred in your example.

Conduction	Convection	Radiation	
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F. J. W.	Fire least in m	Evolenation	
Explanation:	Explanation:	Explanation:	
In each of the following situations, identify the method of heat transfer taking place. Write conduction, convection, or radiation on the line next to the statements. Choose the <u>best</u> answer.			
You are stirring a bowl of hot soup with a metal spoon. The spoon starts to feel warmer because of			

You buy a lava lamp from the store. As the lamp heats up, blobs of liquid rise to the top then sink back down to the bottom. This process continues because of _______.
You are doing your homework at a desk that is underneath a lamp. You start to feel hotter because of _______ from the lamp.
Your best friend has a bunk bed. You move from the bottom bunk to the top bunk and notice that the air is warmer. The warm air rises because of _______.
You are in science class and want to see if the hot plates were used recently. You place your hand over the hot plate. Without touching the hot plate, your hand feels warmer. Heat is transferred to your hand by ______.
You are roasting marshmallows at a campfire. The metal skewer (stick) that you're cooking your marshmallow on burns your hand because of ______.