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

<ol> <li>Hot coffee is stirred with a spoon, the spoon gets hot due to</li> </ol>
2. A chair is placed several feet from a fire in a fireplace. The fireplace has a glass screen. The fireplace has a glass screen.
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 bre
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
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 plan
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
13. A huge rock at the state park gets so hot during the day that you can't sit on it from
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

