

Define in YOUR own words:

1. Conduction: _____

2. Convection: _____

3. Radiation: _____

Identify the method of heat transfer that takes place in each illustration. Some have more than one form.

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

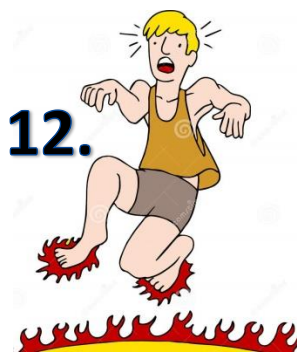
11. _____

12. _____

13. _____

14. _____

15. _____



Identify the method of heat transfer taking place in each of the following situations: convection, conduction, 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 away from a fire in a fireplace with a glass screen. The side of the chair facing the fireplace gets warm because
- _____ 3. Vivian's 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 . . .
- _____ 5. Megan holds the back of her hand near an iron to see if it's hot. Heat is transferred to her hand by . . .
- _____ 6. A heater is placed under one corner of a water bed mattress. Warm water moves throughout the mattress because of . . .
- _____ 7. You lay on that same rock at night so that you can keep warm by . . .
- _____ 8. Warm air over the beach rises while cooler dense air from the ocean
- _____ 9. A stainless steel pot has a layer of copper applied to the bottom to help it heat evenly. The copper transferring heat to the pan by . . .
- _____ 10. In the ocean, the water near the surface is slightly warmer. The warmer water rises because of . . .
- _____ 11. The metal skewer gets so hot that you drop your marshmallow in the campfire because of . . .
- _____ 12. A house burned down. The house across the street has all the vinyl siding twisted and warped by the heat. This is an example of . . .
- _____ 13. The cause of weather systems on earth is . . .
- _____ 14. Sam the seal lays on the same rock at night to keep warm by . . .
- _____ 15. Cesar is on the top bunk of a bunk bed and wants to turn the air conditioning on while Stephen on the bottom bunk is fine. This is caused by . . .

