SCIENCE 9

Identify the method of heat transfer that takes place in each situation. Choose conduction, convection, or radiation.

1. After ironing your clothes, it feels hot due to _____.

2. Elbow macaroni shells rise and fall in boiling water due to _____.

3. A spoon starts to feel warm after stirring a bowl of hot soup because of _____.

4. A huge rock at the park gets hot during the day, that you can't sit on it, due to _____.

5. As a lava lamp heats up, blobs of liquid rise to the top then sink back to the bottom. This process continues because of _____.

6. A chair is placed several feet from a fireplace with glass screen. The side of the chair facing the fire gets warm because of _____.

7. A heater is placed under one corner of a waterbed mattress. The warm water moves throughout the mattress because of _____.

8. Water near the surface of a swimming pool is slightly warmer than the water at the bottom. The warm water rises because of _____.

9. You moved from the top bunk of a bunk bed to the bottom and noticed that the air is colder. The cold air stays at the bottom because of _____.

10. In a science class, a student wants to check if a hot plate was used recently. He placed his hand over the hot plate and felt warm even without touching the plate. Heat is transferred to his hand by _____.