

CONDUCTION, CONVECTION, AND RADIATION

GROUP PRACTICE

Directions: Next to each scenario, determine if it is an example of conduction, convection, or radiation. Use your notes to help.

1. Hot coffee is stirred with a spoon. The spoon starts to get hot.

2. Near the ceiling of a room is hot air but the air by the floor feels cooler.

3. You are getting ready to make macaroni and cheese and the water starts to boil. You put the macaroni and cheese in and notice they start moving up and down throughout the water.

4. The metal skewer that is in the fire is so hot you drop the skewer with the marshmallow into the fire.

5. You are sitting by a fire and you become very hot that you have to move farther away from the fire.

6. You are on the top bunk bed and very hot while the person on the bottom bunk feels just fine.

7. A house burns down. The house across the street has melted vinyl siding on their house.

8. You are curling your hair with a curling iron and accidentally touch the metal part and it burns your hand.

9. You open the oven to take out the cookies and feel a burst of hot air come out of the oven.

10. You go to take out the cookies from the oven and touch the cookie sheet without any gloves.

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INDEPENDENT PRACTICE

Directions: Next to each scenario, determine if it is an example of conduction, convection, or radiation. Use your notes to help.

1. You go outside on a sunny day and get really hot.

2. You place your cold hands by a heater and they start to get warm.

3. In a swimming pool, the water near the surface feels warmer than the water at the bottom of the pool.

4. The heat my grandma feels when sitting under a heat lamp.

5. You go outside with bare feet on a 100° day and you step on the cement and your feet feel like they are burning.

6. It is winter and your dog is laying by a wood stove to get warm.

7. You microwave a bowl of soup. You go to take the bowl out and it's too hot to hold.

8. Your mom is ironing a shirt. After she places the iron on the shirt it gets hot.

9. Warm air by the beach rises while the cool air is brought down giving a nice cool breeze while you are building a sandcastle.

10. The 7th graders on the bottom floor are talking about how cool it is in the room while the 8th graders upstairs are complaining that it is very hot in the rooms.
