

Heat Transfer

Multiple Choice Questions

Name _____

Date _____

1. Which of the following is an example of convection?
 - a. When hotter air meets cooler air, hotter air rising and pushing cooler air down.
 - b. When water turns to ice, its volume expands
 - c. Woods burning in a fire
 - d. Ice cream melting under the sun
 - e. None of the above
2. To grill a raw steak, which of the following is an example of conduction?
 - a. The steak blackening when overcooked
 - b. The steak cooling when a breeze blows away the heat
 - c. electricity being used to heat the stove
 - d. The steak emitting hot smoke
 - e. The steak being heated by the metal stove
3. Which of the following is an example of convection?
 - a. Water turning to ice when the temperature is below 0
 - b. Coal is burning to produce heat
 - c. Only the water in the bottom of a pot heating since the hot water rises and pushes cold water down
 - d. Water expanding when it gets hotter.
 - e. None of the above
4. When making a cup of ramen with boiled water, which of the following example is conduction?
 - a. Feeling heat from holding the cup
 - b. The soup releasing hot steam
 - c. Smelling the soup outside the kitchen
 - d. The powdery soup dissolving in water
 - e. Stirring the soup to make it cooler
5. Jenny heats a steak in the iron pan over the stove. Which of the following is an example of conduction?
 - a. The flames transferring heat to the steak
 - b. Steam rising to the top of the pan
 - c. The steak absorbing heat from the bottom of the pan
 - d. The iron pan becoming hot
 - e. None of the above
6. Which of the following is an example of convection?
 - a. Baking a pizza in an oven
 - b. Taking a shower with 40 °C hot water
 - c. Putting an orange into the fridge to keep it cold and fresh
 - d. Rubbing hands together to warm them
 - e. The hot air rising to the top of a heated house
7. Thermal energy can be transferred by
 - a. conduction.
 - b. convection.
 - c. radiation.
 - d. all of the above