

## Chapter 22 Heat Transfer

**Exercises****22.1 Conduction (pages 431–432)**

1. Define conduction.

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\_\_\_\_\_

2. What is a conductor?

\_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_ are the best conductors.

4. In conduction, \_\_\_\_\_ between particles transfer thermal energy.

5. Is the following sentence true or false? Conduction occurs without any overall transfer of matter. \_\_\_\_\_

6. Is the following sentence true or false? Materials that are good conductors of heat are usually poor conductors of electricity.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7. Imagine stepping with one bare foot onto metal and with the other bare foot onto wood. Explain why the metal feels cool and the wood feels warm, even though they have the same temperature.

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\_\_\_\_\_

\_\_\_\_\_

8. Define insulator.

\_\_\_\_\_

\_\_\_\_\_

9. How do birds vary their insulation?

\_\_\_\_\_

\_\_\_\_\_

10. Classify each of the following materials by writing C beside each conductor and I beside each insulator.

\_\_\_\_\_ a. wood

\_\_\_\_\_ g. iron

\_\_\_\_\_ b. aluminum

\_\_\_\_\_ h. wool

\_\_\_\_\_ c. straw

\_\_\_\_\_ i. paper

\_\_\_\_\_ d. silver

\_\_\_\_\_ j. copper

\_\_\_\_\_ e. air

\_\_\_\_\_ k. polystyrene

\_\_\_\_\_ f. cork

# Conceptual Physics Chapter 22 Heat Transfer Answers

**Padhraic Smyth**



## **Conceptual Physics Chapter 22 Heat Transfer Answers:**

## **Conceptual Physics Chapter 22 Heat Transfer Answers** Book Review: Unveiling the Magic of Language

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