

CK-12 Physics Concepts - Intermediate Answer Key

Chapter 10: Thermal Energy

10.1 Heat, Temperature, and Thermal Energy Transfer

Practice

Questions

1. Which material was a better conductor of heat?
2. Explain why metals feel cold even when they are at room temperature?

Answers

1. The aluminum melted the ice cube faster because it was able to conduct the heat better.
2. The heat from your finger is able to be dissipated throughout the metal so more heat leaves your body. When you touch styrofoam, the heat remains on the surface and it feels warmer.

Review

Questions

1. Convert 4.22 K to °C.
2. Convert 37°C to K.
3. If you had beeswax attached to one end of a metal skewer and you placed the other end of the skewer in a flame, what would happen after a few minutes?
4. Which contains more heat, a coffee cup of boiling water or a bathtub of room temperature water?

Answers

1. $273.15 - 4.22 = 268.93$ °C
2. $37 + 273.15 = 310.15$ K
3. After a few minutes, the beeswax would begin to melt because of the heat transfer along the metal skewer.
4. The bathtub has more heat, but a lower temperature.

10.2 Specific Heat

Practice

Thermal Energy Physics Answers

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