

Chapter 16 Thermal Energy and Heat

Section 16.1 Thermal Energy and Matter

(pages 474–478)

This section defines *heat* and describes *how work, temperature, and thermal energy are related to heat*. It also discusses *thermal expansion and contraction of materials*, and explains *uses of a calorimeter*.

Reading Strategy (page 474)

Previewing Before you read, preview the figures in this section and add two more questions to the table. As you read, write answers to your questions. For more information on this Reading Strategy, see the **Reading and Study Skills** in the Skills and Reference Handbook at the end of your textbook.

Thermal Energy and Matter	
Questions About Thermal Energy and Matter	Answers
Which has more thermal energy, a cup of tea or a pitcher of juice?	A pitcher of juice.
Why did diamond sawblades that heat a rock to form diamonds? (p. 474)	The brass was hot enough to make water boil only during drilling, so the heat must be related to the motion of the drill.
How is specific heat related to temperature? (p. 475)	One factor is material's specific heat. One factor is temperature itself when a given amount of energy is absorbed by a given mass.

Work and Heat (page 474)

- Heat is the transfer of thermal energy from one object to another as the result of a difference in _____. Circle the correct answer.
density potential energy temperature
- Circle the letter of each sentence that is true about heat.
 - Heat is a fluid that flows between particles of matter.
 - Heat flows spontaneously from hot objects to cold objects.
 - Friction produces heat.

Temperature (page 475)

- What is temperature? Temperature is a measure of how hot an object or system is compared to a reference point.

If heat flows in, adding a heat bath will help read.

Section 16 1 Thermal Energy And Matter Answers Key

Y Pai



Section 16 1 Thermal Energy And Matter Answers Key:

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