

3.3 Thermodynamics: Study Guide

Use this [outline](#) to review the key vocabulary for this unit.

1. Match the vocabulary words on the left with the appropriate definitions and units on the right.

a. Thermal Energy	<u>A</u> Kinetic energy in transit from one object to another due to temperature difference
b. Temperature	<u>B</u> Degree Celsius
	<u>C</u> Joules
	<u>D</u> The average kinetic energy of particles in an object.

2. In the table below, write in the appropriate formulas.

Energy Transfer	Rate of Energy Transfer	Thermal Conductivity	Coefficient of Heat Conductivity
$Q = mc \cdot \Delta T$	$P = \frac{c \Delta T}{L}$ or $P = \frac{Q}{t}$ <u>Thermal conductance</u> $P = \sigma A c (\Delta T)^2$	$K = \frac{PL}{A \Delta T}$	$U = \frac{P}{A \cdot \Delta T}$

3. For each example, write the correct number for the law of thermodynamics it describes (0, 1, 2).
- 2 The law of entropy
 - 1 Thermal energy can only be increased in a system by adding heat from an external source or performing work within the system
 - 0 If two systems are separately found to be in thermal equilibrium with a third, then the two systems are in thermal equilibrium with each other.
 - 2 Thermal energy flows only from warmer to cooler
 - 1 The law of conservation of energy applied to thermal systems
4. How much thermal energy would it take to raise the temperature of 1.1 (1 kg) of water by 10°C? The specific heat capacity of water is $4184 \frac{J}{kg \cdot ^\circ C}$

$$Q = mc \Delta T$$

$$= 1.1 kg \cdot 4184 \frac{J}{kg \cdot ^\circ C} \cdot 10^\circ C$$

$$Q = 41,840 J$$

$$Q = \underline{41,840 J}$$

5. A materials scientist is trying to determine the specific heat capacity of an experimental material. She applies 30 kJ of thermal energy to a 5 kg sample of the material and records a 24°C temperature increase in the sample. What is the specific heat capacity of the material?

$$Q = mc \Delta T$$

$$c = \frac{Q}{m \Delta T}$$

$$c = 2500 \frac{J}{kg \cdot ^\circ C}$$

$$c = \underline{2500 \frac{J}{kg \cdot ^\circ C}}$$

$$= \frac{30000 J}{5 kg \cdot 24^\circ C}$$

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Open University

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Table of Contents **Thermodynamics Study Guide Answers**

1. Understanding the eBook Thermodynamics Study Guide Answers
 - The Rise of Digital Reading Thermodynamics Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Thermodynamics Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics Study Guide Answers
 - Personalized Recommendations
 - Thermodynamics Study Guide Answers User Reviews and Ratings
 - Thermodynamics Study Guide Answers and Bestseller Lists

5. Accessing Thermodynamics Study Guide Answers Free and Paid eBooks
 - Thermodynamics Study Guide Answers Public Domain eBooks
 - Thermodynamics Study Guide Answers eBook Subscription Services
 - Thermodynamics Study Guide Answers Budget-Friendly Options
6. Navigating Thermodynamics Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Thermodynamics Study Guide Answers Compatibility with Devices
 - Thermodynamics Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thermodynamics Study Guide Answers
 - Highlighting and Note-Taking Thermodynamics Study Guide Answers
 - Interactive Elements Thermodynamics Study Guide Answers
8. Staying Engaged with Thermodynamics Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermodynamics Study Guide Answers
9. Balancing eBooks and Physical Books Thermodynamics Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermodynamics Study Guide Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Thermodynamics Study Guide Answers
 - Setting Reading Goals Thermodynamics Study Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Thermodynamics Study Guide Answers
 - Fact-Checking eBook Content of Thermodynamics Study Guide Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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