

Thermochemistry and Gas Laws Unit Review

Energy Math

1. How much energy is released when a brick with a mass of 329g is cooled from 80°C to 50°C? The specific heat capacity of brick is 0.84 J/g°C.

$$Q = mc\Delta T$$
$$(329g)(0.84J/g^{\circ}C)(-30^{\circ}C)$$

$$Q = -8290J$$

2. What is the mass of a hotdog that releases 3600 J of energy as it is cooled from 95°C to 45 °C? The specific heat capacity of a hotdog is 1.5 J/g°C.

$$m = \frac{-3600J}{(1.5J/g^{\circ}C)(-50^{\circ}C)} = 48g$$

3. What is the specific heat capacity of a 350 g object that rises in temperature 15°C when 55,900 J of energy are added?

$$C = \frac{55900J}{(350g)(15^{\circ}C)} = 10.6J/g^{\circ}C$$

4. 45,920 J of energy are added to a 365g block of copper originally at 35°C. What will the new temperature of the copper be? The specific heat capacity of copper is 0.385 J/g°C.

$$\Delta t = \frac{45920J}{(365g)(0.385J/g^{\circ}C)} = 326^{\circ}C = T_f - 35^{\circ}C$$
$$+35^{\circ}C \quad +35^{\circ}C$$

$$361^{\circ}C = T_f$$

5. 89,290 J of energy are removed from a 670 g block of aluminum originally at 125°C. What will the new temperature of the aluminum be? The specific heat capacity of aluminum is 0.902 J/g°C.

$$\Delta t = \frac{-89290J}{(670g)(0.902J/g^{\circ}C)} = -148^{\circ}C = T_f - 125^{\circ}C$$
$$+125^{\circ}C \quad +125^{\circ}C$$

$$-23^{\circ}C = T_f$$

Gases And Thermochemistry Clozing In On Sciencekey

S Marginson



Gases And Thermochemistry Clozing In On Sciencekey:

The book delves into Gases And Thermochemistry Clozing In On Sciencekey. Gases And Thermochemistry Clozing In On Sciencekey is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gases And Thermochemistry Clozing In On Sciencekey, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gases And Thermochemistry Clozing In On Sciencekey
 - Chapter 2: Essential Elements of Gases And Thermochemistry Clozing In On Sciencekey
 - Chapter 3: Gases And Thermochemistry Clozing In On Sciencekey in Everyday Life
 - Chapter 4: Gases And Thermochemistry Clozing In On Sciencekey in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Gases And Thermochemistry Clozing In On Sciencekey. This chapter will elucidate the essential principles that must be understood to grasp Gases And Thermochemistry Clozing In On Sciencekey in its entirety.
 4. In chapter 3, the author will examine the practical applications of Gases And Thermochemistry Clozing In On Sciencekey in daily life. The third chapter will showcase real-world examples of how Gases And Thermochemistry Clozing In On Sciencekey can be effectively utilized in everyday scenarios.
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 6. In chapter 5, this book will draw a conclusion about Gases And Thermochemistry Clozing In On Sciencekey. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Gases And Thermochemistry Clozing In On Sciencekey.

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