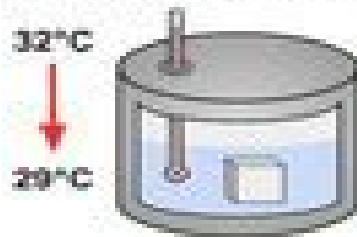


**Instructions:** Read each scenario and answer the questions below about calorimetry.



A piece of metal is placed in a calorimeter.

The temperature reading on the thermometer decreases from 32°C to 29°C.

- 19) Which substance underwent an exothermic process? \_\_\_\_\_
- 20) Which substance underwent an endothermic process? \_\_\_\_\_
- 21) Heat flowed from the \_\_\_\_\_ into the \_\_\_\_\_

Calorimeter Readings	Temperature
Initial Temperature of Steel	150°C
Initial Temperature of Water	95°C
Final Temperature of Water	98°C

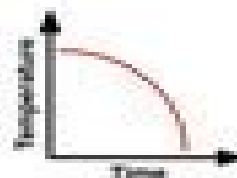
A cube of steel is placed in a calorimeter filled with water.

Initial and final temperatures are shown in the table.

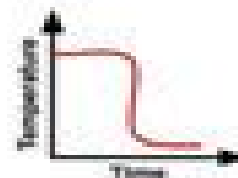
- 22) Which substance underwent an exothermic process? \_\_\_\_\_
- 23) Which substance underwent an endothermic process? \_\_\_\_\_
- 24) Which graph below shows the temperature of the steel? \_\_\_\_\_



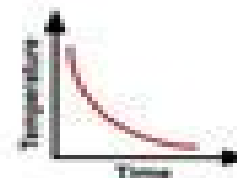
Graph A



Graph B



Graph C



Graph D

# Thermochemistry Study Guide With Heat Review

**S. Ekambaram**



## **Thermochemistry Study Guide With Heat Review:**

Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane  $\text{CH}_4$  from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

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