

Name: Ahmed Faizan Date: 12 May Period:

Specific Heat and Heat Capacity Worksheet

DIRECTIONS: Use $q = (m)(C_p)(\Delta T)$ to solve the following problems. Show all work and units.

Ex: How many joules of heat are needed to raise the temperature of 10.0 g of aluminum from 22°C to 55°C, if the specific heat of aluminum is 0.90 J/g°C?

$$\begin{aligned} q &= ? & \Delta t &= 55 - 22 = 33^\circ\text{C} & q &= m s \Delta t \\ m &= 10\text{g} & s &= 0.9 \text{ J/g}^\circ\text{C} & &= 10 \times 0.9 \times 33 \\ & & & & &= \underline{297 \text{ J}} \end{aligned}$$

1. The temperature of 335 g of water changed from 24.5°C to 26.4°C. How much heat did this sample absorb? C for water = 4.18 J/g°C

$$\begin{aligned} \Delta t &= 26.4 - 24.5 = 2 & q &= m s \Delta t \\ s &= 4.18 \text{ J/g}^\circ\text{C} & &= 335 \times 4.18 \times 2 \\ m &= 335\text{g} & &= \underline{2800.6 \text{ J}} \end{aligned}$$

2. How much heat in kilojoules has to be removed from 225g of water to lower its temperature from 25.0°C to 10.0°C?

$$\begin{aligned} \Delta t &= 25 - 10 = 15 & q &= m s \Delta t \\ m &= 225\text{g} & &= 225 \times 4.18 \times 15 \\ s &= 4.18 \text{ J/g}^\circ\text{C} & &= \underline{14107.5 \text{ J}} \\ 1\text{J} &= 1 \times 10^{-3} \text{ KJ} & \therefore &= \underline{14.1075 \text{ KJ}} \end{aligned}$$

3. To bring 1.0kg of water from 25°C to 99°C takes how much heat input?

$$\begin{aligned} m &= 1\text{kg} = 1000\text{g} & q &= 1000 \times 4.18 \times 74 \\ \Delta t &= 99 - 25 = 74 & q &= \underline{309320 \text{ J}} \\ s &= 4.18 \text{ J/g}^\circ\text{C} & & \end{aligned}$$

An insulated cup contains 75.0g of water at 24.00°C. A 26.00g sample of metal at 82.25°C is added. The final temperature of the water and metal is 28.34°C. What is the specific heat of the metal?

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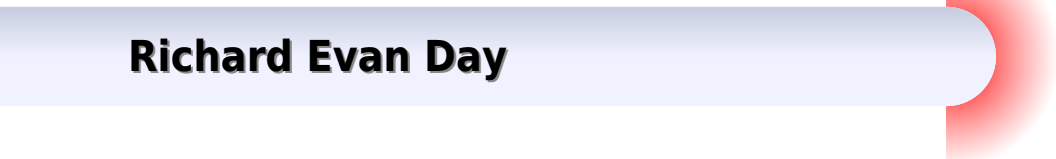
$$\begin{aligned} (q_{\text{water}} &= -q_{\text{metal}}) & (C = m s) &\rightarrow s = \frac{C}{m} \\ q_{\text{water}} &= 75 \times 4.18 \times (28.34 - 24) & q &= m s \Delta t \\ &= 1252 & 1252 &= 26 \times s \times (82.25 - 28.34) \\ & & & 1252 = 26 \times 53.91 \times s \\ & & & s = \underline{0.893 \text{ J/g}^\circ\text{C}} \end{aligned}$$

5. A calorimeter has a heat capacity of 1265 J/°C. A reaction causes the temperature of the calorimeter to change from 22.34°C to 25.12°C. How many joules of heat were released in this process?

$$\begin{aligned} C &= 1265 \text{ J/}^\circ\text{C} \\ \Delta t &= 25.12 - 22.34 = 2.78 \\ q &= ? \\ q &= C \Delta t \\ &= 1265 \times 2.78 \\ &= \underline{3516.7 \text{ J}} \end{aligned}$$

Answers Of Specific Heat

Richard Evan Day



Answers Of Specific Heat:

Answers to Questions Set at Examinations Great Britain. Education Department. Department of Science and Art, 1889

Answers to questions set at the science and art examinations Science and art department, 1887 **Matriculation model answers: heat and light, magnetism and electricity. Being the papers from June 1888 to Jan. 1891, with**

answers by H.E. Schmitz and R.W. Stewart London univ, exam. papers, 1891 Fluid and Thermal Dynamics Answer

Bank for Engineers Ethirajan Rathakrishnan, 2023-03-27 This book provides the essence of aerodynamics fluid mechanics experimental methods gas dynamics high enthalpy gas dynamics helicopter aerodynamics heat transfer and thermodynamics describing the underlying principles of these subjects before listing the set of multiple choice questions of each subject which will prove to be useful for engineering students to comfortably face and win in the competitive examinations for engineering

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Physics With Chapterwise Question - Answers Class XI by D. C. Upadhyay, Dr. J. P. Goel, Er. Meera Goyal D. C. Upadhyay,

Dr. J. P. Goel, Er. Meera Goyal, 2020-06-27 Unit 1 Physical World and Measurement 1 Systems of Units and Measurement 2

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Reflection of Waves Stationary Waves in Stretched Strings and Organ Pipes 27 Doppler's Effect **Physics with Answers**

Andrew R. King, Oded Regev, 1997-05-28 This book contains 500 problems covering all of introductory physics along with

clear step by step solutions to each problem **Numerical Examples in Heat** Richard Evan Day, 1885 **Experimental**

physics William Abbott Stone, 1899 Review Guide for LPN/LVN Pre-entrance Exam National League for Nursing, Natl

League Nursing, 2008-09-12 Providing an overview of the math science and reading comprehension skills necessary for

admission to LPN programs this bestselling guide includes multiple choice questions and practice examinations in each of the three test areas Physics Question Bank IIT JEE Mains - Chapterwise, Physics Question Bank IIT JEE Mains Table of

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