

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?

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

Imp 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?

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

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 For Specific Heat Cpo Science

Latif M. Jiji



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premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world *Interdisciplinary Finite Element Analysis* John Fredrick Abel, Tadahiko Kawai, Shan-Fu Shen, 1981 **Heat Conduction** Latif M. Jiji, 2009-07-09 This textbook presents the classical topics of conduction heat transfer and extends the coverage to include chapters on perturbation methods heat transfer in living tissue and microscale conduction This makes the book unique among the many published textbook on conduction heat transfer Other noteworthy features of the book are The material is organized to provide students with the tools to model analyze and solve a wide range of engineering applications involving conduction heat transfer Mathematical techniques are presented in a clear and simplified fashion to be used as instruments in obtaining solutions The simplicity of one dimensional conduction is used to drill students in the role of boundary conditions and to explore a variety of physical conditions that are of practical interest Examples are carefully selected to illustrate the application of principles and the construction of solutions Students are trained to follow a systematic problem solving methodology with emphasis on thought process logic reasoning and verification Solutions to all examples and end of chapter problems follow an orderly problems solving approach Extensive training material is available on the web The author provides an extensive solution manual for verifiable course instructors on request Please send your request to heattextbook@gmail.com *Resilient Horizons: Building Sustainable Environments for Climate Adaptation and Health* Bao-Jie He, Joni Jupesta, Gloria Pignatta, 2024-01-02 This book discusses the challenges related to climate change mitigation and adaptation It adds valuable strategies and insights into the development of new practices solving the identified social and economic problems related to ecosystem deterioration and anticipating other disasters related to climate change As the decarbonization of cities and communities became an issue of great interest to many researchers the book in hand is of great importance to decision makers and energy stakeholders and others seeking a more resilient and sustainable future and developing innovative technologies to overcome environmental deterioration This book is a culmination of selected research papers from the first version of the international conference on Climate Change and Environmental Sustainability which was held in 2022 in collaboration with Chongqing University China *Journal of the Aero/space Sciences*, 1960 *Introduction to Food Process Engineering* P. G. Smith, 2011-02-11 This is a new book on food process engineering which treats the principles of processing in a scientifically rigorous yet concise manner and which can be used as a lead in to more specialized texts for higher study It is equally relevant to those in the food industry who desire a greater understanding of the principles of the food processes with which they work This text is written from a quantitative and mathematical perspective and is not simply a descriptive treatment of food processing The aim is to give readers the confidence to use mathematical and quantitative analyses of food processes and most importantly there are a large number of worked examples and problems with solutions The mathematics necessary to read this book is limited to elementary differential and integral calculus and the

simplest kind of differential equation *Monthly Weather Review* ,1985 Physics Briefs ,1992 *Greenhouse Gas Control Technologies* B. Eliasson,P. Riemer,A. Wokaun,1999-05-20 These proceedings contain 270 papers outlining ideas and contributions to the new scientific technical and political discipline of Greenhouse Gas GHG Control The contributions were presented at the 4th International Conference on Greenhouse Gas Control Technologies GHGT 4 It was the largest gathering of experts active in this new and fast developing field GHGT 4 was different from its predecessors in that it included all greenhouse gases not only CO₂ and all issues which could contribute to the mitigation of the greenhouse problem technical economic and political The main focus was on practical solutions and real demonstrations of mitigation technology being planned and implemented today It also addressed ways to increase the efficiency of power production and utilisation and looked at proposals to encourage the development of renewable energy sources During the Opening Session 10 keynote addresses were heard from prominent personalities in government industry and academia To tackle this very inter disciplinary problem and to achieve acceptable solutions it is essential for industry and government to initiate intense dialogue and cooperation Conferences like this can provide the opportunity for a meeting of minds between engineers and politicians in the face of global challenge The primary attributes of this global challenge are manifold the problem is global and international it is inter disciplinary both in substance and approach it covers technical political and economic issues and involves government science industry and academia it is complex and non linear and it will take the efforts of all parties involved to solve the problem These proceedings contain ideas for starting demonstration projects and for making better use of the power and flexibility of market measures They also show it is a problem we can influence and that there is a wealth of ideas The challenge now is to find the right partners to put these ideas into action **Commerce Business Daily** ,1999

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