

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 For Specific Heat Cpo Science

Michael Seilmaier

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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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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