

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?

Imp

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

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

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web the air cooled heat exchangers are also known as fin fan coolers fin fan cooler is nothing but traditional name of air cooled heat exchanger since fins are used in the cooler it is called as fin fan cooler please refer

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web the main function of the air cooled heat exchanger is the direct cooling of various process mediums by atmospheric air these heat exchangers are also known as air fin fan coolers or air fin coolers or air coolers or fin tube heat exchangers

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web frame size 36 36 36mm 03 38 38mm 04 40 40mm 05 52 52mm 06 60 60mm 08 80 80mm 09 92 92mm 12 120 120mm 13 127 127mm 14 140 140mm 15 150 150mm 17  $\phi$ 172mm 47  $\phi$ 172mm 147mm sidecut 57  $\phi$ 172mm 150mm sidecut 20  $\phi$ 200mm voltage 05 5v 12 12v 24 24v 48 48v etc speed code

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web cleaning your air cooled heat exchanger with jpx f is better for the equipment and personnel the gentle yet effective foaming action clears away dirt and debris effectively without damaging equipment your fin fans and heat exchangers will run at optimum levels and return to their peak performance once again

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web data sheet electromo nv electric motor type 1rp180l 10 7 5kw 579rpm 400v 690v 50hz

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web iogp s 710d data sheet for air cooled heat exchangers the data sheet defines application specific requirements attributes and options specified by the purchaser for the supply of equipment to the technical specification

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web dec 22 2017 fin fan cooler is nothing but traditional name of air cooled heat exchanger since fins are used in the cooler it is called as fin fan cooler please refer air cooled heat exchanger for all the details in the fin fan coolers the ambient air used as the cooling media to cool the main hot fluid which used in tube side

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web sep 9 2018 issue 2 many time we see the performance of the fin fan cooler is not as ok and unable to maintain the proper cooling it is because of the many reason e g fouling of the tubes inside of the

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web life of the cooler this is the preferred tube for operating temperatures up to 600 f the embedded fin also affords a continued predictable heat transfer and should be used for all coolers operating above 600 f and below 750 f the wrap on footed fin tube can be used below 250 f however the bond between the fin

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web introduction fin fan cooler is a kind of heat exchanger that uses the air for cooling medium it is required a wide surface area for heat transfer it is applied to finned tube for increasing the heat transfer surface and compact design of construction area and the process fluid can be cooled by the natural air it is not required a coolant

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web our large fan field erected units are available in bay sizes up to 70 feet by 54 feet and fan diameters up to 36 feet our modular design and construction expertise allows for fast and dependable field erection benefits of the large fan design include air cooled heat exchanger air heat exchanger heat exchanger

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web the air cooler bank essentially consists of finned tube bundles fan rings axial fans with suitable drive units and a supporting structure it can be equipped individually with maintenance platforms louvers and other equipment as requested by the customer

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web disposal to get more out of what you have without the need for brand new air coolers this fan is located below the process bundle and air is forced through the fin tubes induced draft fan is located above the process bundle and air is induced or pulled with the data sheet paper and pen in hand head out and do a detailed visual