

## *Specific Heat Calculations Worksheet With Answers*

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### Specific Heat Calculations Worksheet With

Worksheet- Calculations involving Specific Heat 1. For  $q = m c \Delta T$  : identify each variables by name & the units associated with it.  $q$  = amount of heat (J)  $m$  = mass (grams)  $c$  = specific heat (J/g°C)  $\Delta T$  = change in temperature (°C)

### Worksheet- Calculations involving Specific Heat - Mr. Winters

Calculate the specific heat capacity of mercury. 6. What is the specific heat capacity of silver metal if 55.00 g of the metal absorbs 47.3J of heat and the temperature rises 15.0°C? 7. What mass of water will change its temperature by 3 0C when 525 J of heat is added to it? The specific heat of water is 4.18 J/g 0C. 8.

### Calculating Specific Heat Worksheet

Specific Heat Worksheets - showing all 8 printables. Worksheets are Name per work introduction to specific heat capacities, Work calculations involving specific...

### Specific Heat Worksheets - Printable Worksheets

Specific Heat Calculations Worksheet. In a heat calculation problem, if the problem asks about melting/freezing you would multiply the mass times \_\_\_\_\_. heat of fusion. heat of vaporization. or specific heat. In a heat calculation problem, if the problem asks about a change in temperature, you would multiply the mass times \_\_\_\_\_ times the ...

### Heat Calculations Worksheet - Socorro Independent School ...

j ri phufxu\ lv khdwhg iurp & wr & dqg devruev mrxohv ri khdw lq wkh surfhvv &dofxodwh wkh vshflilf khdw fdsdflw\ ri phufxu\ :kdw lv wkh vshflilf khdw fdsdflw\ ri vloyhu phwdo li j ri wkh phwdo devruev - ri khdw

### Specific Heat Worksheet Extra-1 - ChemIsTry with Dr. Kartin

Worksheet- Calculations involving Specific Heat 1. For  $q = m c \Delta T$  : identify each variables by name & the units associated with it. 2. Heat is not the same as temperature, yet they are related. Explain how they differ from each other.

### Name: Per: Worksheet- Introduction to Specific Heat Capacities

paper to complete your calculations. f v 8. How much heat is required to warm 275 g of water from 76 oC to 87 oC? 9. PCI 3 is a compound used to manufacture pesticides. A reaction requires that 96.7 g of PCI 3 be raised from 31.7 oC to 69.2oC. How much energy will this require given that the specific heat of PCI 3 is 0.874 J/g oC? 10.

### 13-06a,b,c Heat and Heat Calculations wkst-Key

require given that the specific heat of PCI 3 is 0.874 J/g oC? 10. A quantity of water is heated from 25.0 oC to 36.4 oC by absorbing 325 J of heat energy. What is the mass of the water? 11. A 500. g sample of an unknown metal releases  $6.4 \times 10^2$  J as it cools from 55.0 oC to 25.0 oC. What is the specific heat of the sample? 12.

### 13-05,06 Heat and Heat Calculations wkst

Two page worksheet using Specific Heat Capacity. Questions start easy then become gradually harder. Answers included on separate sheet. Also includes a spreadsheet to show how the calculations have been done.

### Specific Heat Capacity Worksheet (with answers) by ...

Heat Transfer/ Specific Heat Problems Worksheet Solving For Heat (q) 1. How many joules of heat are required to raise the temperature of 550 g of water from 12.0 oC to 18.0 oC? 2. How much heat is lost when a 64 g piece of copper cools from 375 oC, to 26 C? (The specific heat of copper is 0.38452 J/g x oC). Place your answer in kJ. 3.

### Heat Transfer/ Specific Heat Problems Worksheet

of energy. Calculate the specific heat of the metal and determine its identity. Specific Heat Name \_\_\_\_\_ Chem Worksheet 16-1 Useful Equations  $q = mc \Delta T$   $c = 5/9(T_f - 32)$   $T = T_{\text{final}} - T_{\text{initial}}$   $T_K = T_c + 273$   $1 \text{ kg} = 1000 \text{ g}$   $1 \text{ cal} = 4.184 \text{ J}$

### **Specific Heat - California State University, Northridge**

Specific Heat Capacity Worksheets - showing all 8 printables. Worksheets are Name per work introduction to specific heat capacities, Specific heat, Latent heat and...

### **Specific Heat Capacity Worksheets - Printable Worksheets**

About This Quiz & Worksheet. This quiz and worksheet gauge your knowledge of specific heat capacity and how it is calculated. You will be quizzed on terms, such as heat energy and kinetic energy.

### **Quiz & Worksheet - Calculating Specific Heat Capacity ...**

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Chemistry\*Temperature&SpecificHeat\*Worksheet\*Answer Key TemperatureConversions! 1. Complete!the!table!below:!!!! ! 2" 3" 4"

### **Chemistry\*Temperature&SpecificHeat\*Worksheet\* Answer Key**

4. 100.0 g of 4.0°C water is heated until its temperature is 37°C. If the specific heat of water is 4.18 J/g°C, calculate the amount of heat energy needed to cause this rise in temperature. 5. 25.0 g of mercury is heated from 25°C to 155°C, and absorbs 455 joules of heat in the process. Calculate the specific heat capacity of mercury. 6.

### **Calculating Specific Heat Worksheet**

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Specific Heat Chem Worksheet 16 1 Answer Key 11 Super Worksheet Heat Calculations Worksheet Image Specific Heat By Frank Webb Posted on November 11, 2017 July 28, 2018 0 views

### **Specific Heat Chem Worksheet 16 1 Answer Key 11 Super ...**

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? 1.

## **Specific Heat Calculations Worksheet With Answers**

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