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2 Help Instructions for
the Calorimetry Lab

Gizmo Calorimetry Lab

± CHE 145 Calorimetry
Lab Math Walk

Through Part 1

Graphing Life Hack:

Reveal Blurred Answers

[Math, Physics, Science,

English] *Specific Heat*

of Metal Sample

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Problem solved

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Experiment 5: Calorimetry Lab

Calorimetry Lab Intro
to Gizmo and

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Foods Calorimetry Lab

3 L1 Specific heat

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particles are detected -

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Q\0026A session

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Modify initial mass and temperature values to see effects on the system. One or any combination of the substances can be mixed

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with water. A dynamic graph (temperature vs. time) shows temperatures of the individual substances after mixing.

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Answer QUESTION 4

LAB REPORT

CALORIMETRY 1.000

cal/g.co Table 11.1:

Specific heat. Specific

heat of calorimeter: 0.22

cal/g.co Specific heat of

water: Aluminum

Samples Copper 65.39

m (g) 190.39 47.89 m.

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Solved:

EXPERIMENTAL

ACTIVITIES

CALORIMETRY

ACTIVITY 1: SP ...

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Answers Correct

Answer: A. Substance A

A chemist mixes 500 g

of lead at 500°C with

1,200 g of water at

20°C . She then mixes

500 g of copper at

500°C with 1,200 g of

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water at 20°C . The specific heat capacity of lead is $0.1276 \text{ J/g}^{\circ}\text{C}$ and the specific heat capacity of copper is $0.3845 \text{ J/g}^{\circ}\text{C}$.

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Answer Key

2018 Week 1 Online

Lab: Calorimetry Lab

Gizmo Explore

Learning Gizmo:

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this assignment, you'll use a Gizmo at the Explore Learning web site. Before you begin: Be sure you have read the assigned reading for the week. You may want to print this document so that you can note observations as you work with the gizmo. Later, you can type your answers into the Word document and

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You will use the
Calorimetry Lab Gizmo
™ to determine the

specific heat capacities
of various substances. 1.

On the SIMULATION
pane, select Copper. Use
the slider to set its Mass

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to 200 g. Set the Water mass to 200 g. Check that the Water temp is set to 30.0°C and the copper's is 90°C .

CalorimetryLabSE.1.pdf

- Name Date Student

Exploration ...

Student Exploration:

Calorimetry Lab

Vocabulary: calorie,
calorimeter, joule,
specific heat capacity

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Prior Knowledge Lab

Questions (Do these
BEFORE using the

Gizmo.) 1. The Latin
word calor means

“heat,” and meter
comes from the Greek
word meaning “to
measure.” What do you

think a calorimeter
does? Measures heat 2.

Where have you heard
the word calorie before?

? What do you think a

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activity c ... After

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should complete the

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work through activities and upload completed activities in the space provided. You must also complete the Gizmo 5Q TEST THEN and paste the screenshot ...

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activity c*

The results of Cheetos show a pattern of results being T1 (Least) - T2

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(Highest) - T3 (Lesser than Highest and Higher than Least) Cheeto calorimetry lab answers.

Double Displacement Reactions: Forming Precipitate Lab

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Calorimetry: Measuring
the Energy in Foods A
Carolina Essentials™
Investigation Data and
Observations Student
answers will vary in
mass, and the final
temperature of the water
will vary with the type
of food burned. Sample
#1 Sample #2 Sample
#3 Mass of Water 50 g
49 g 50 g Initial Mass of
Food Sample and Paper

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Clip 4.2 g 3.7 g 3.2 g Lab

Answers

*Calorimetry: Measuring
the Energy in Foods*

You can explore how much energy is required to heat up and cool down materials in the Calorimetry Lab Gizmo.

In this Gizmo, various materials (copper, granite, lead, ice) are immersed in water inside an insulated

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container. The initial masses and temperatures of the materials and water can be adjusted.

Gizmo of the Week:

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1970s, chemistry sets were among the most popular Christmas gifts, selling in the millions.

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The years 2006 and 2007 mark a dramatic change of peoples view regarding climate change and energy consumption. The new IPCC report makes clear that - mankind plays a dominant role on climate change due to CO₂ emissions from energy consumption, and that a significant

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reduction in CO₂ emissions is necessary within decades. At the same time, the supply of fossil energy sources like coal, oil, and natural gas becomes less reliable. In spring 2008, the oil price rose beyond 100 \$/barrel for the first time in history. It is commonly accepted today that we have to reduce the use of fossil

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fuels to cut down the dependency on the supply countries and to reduce CO emissions.

The use of renewable energy sources and 2 increased energy efficiency are the main strategies to achieve this goal. In both strategies, heat and cold storage will play an important role. People use energy in different forms, as

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heat, as mechanical energy, and as light.

With the discovery of fire, humankind was the first time able to supply heat and light when needed. About 2000 years ago, the Romans started to use ceramic tiles to store heat in under floor heating systems. Even when the fire was out, the room stayed warm. Since

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ancient times, people also know how to cool food with ice as cold storage.

Learning

Recent serious and sometimes fatal accidents in chemical research laboratories at United States universities have driven government agencies, professional societies, industries, and

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universities themselves to examine the culture of safety in research laboratories. These incidents have triggered a broader discussion of how serious incidents can be prevented in the future and how best to train researchers and emergency personnel to respond appropriately when incidents do occur. As the priority

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placed on safety increases, many institutions have expressed a desire to go beyond simple compliance with regulations to work toward fostering a strong, positive safety culture: affirming a constant commitment to safety throughout their institutions, while integrating safety as an

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essential element in the daily work of laboratory researchers. Safe

Science takes on this challenge. This report examines the culture of safety in research institutions and makes recommendations for university leadership, laboratory researchers, and environmental health and safety professionals to support

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safety as a core value of their institutions. The report discusses ways to fulfill that commitment through prioritizing funding for safety equipment and training, as well as making safety an ongoing operational priority. A strong, positive safety culture arises not because of a set of rules but because of a constant

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commitment to safety throughout an organization. Such a culture supports the free exchange of safety information, emphasizes learning and improvement, and assigns greater importance to solving problems than to placing blame. High importance is assigned to safety at all times, not just when

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it is convenient or does not threaten personal or institutional productivity goals. Safe Science will be a guide to make the changes needed at all levels to protect students, researchers, and staff.

Within the Office of
Space Science of the
National Aeronautics
and Space

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Administration (NASA)

special importance is attached to exploration of the planet Mars, because it is the most like Earth of the planets in the solar system and the place where the first detection of extraterrestrial life seems most likely to be made. The failures in 1999 of two NASA missions-Mars Climate

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Orbiter and Mars Polar Lander-caused the space agency's program of Mars exploration to be systematically rethought, both technologically and scientifically. A new Mars Exploration Program plan (summarized in Appendix A) was announced in October 2000. The Committee

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on Planetary and Lunar
Exploration
(COMPLEX), a
standing committee of
the Space Studies Board
of the National Research
Council, was asked to
examine the scientific
content of this new
program. This goals of
this report are the
following: -Review the
state of knowledge of
the planet Mars, with

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special emphasis on Lab

findings of the most
recent Mars missions
and related research

activities; -Review the
most important Mars
research opportunities in
the immediate future;

-Review scientific
priorities for the
exploration of Mars
identified by

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groups) and their motivation, and consider the degree to which recent discoveries suggest a reordering of priorities; and -Assess the congruence between NASA's evolving Mars Exploration Program plan and these recommended priorities, and suggest any adjustments that might be warranted.

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During the years
1980-81, as guests of
the Deutsches Woll
forschungsinstitut in
Aachen, Germany, we
were working on a small
book entitled,
"Principles of Peptide
Synthesis". In the
library of the Institute
we noted that the
volumes of Houben-
Weyl's Handbuch der

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dealing with peptide synthesis were so much in use that they were ready to fall apart because the researchers of the Institute consulted them with amazing regularity. They were looking for references, but even more for experimental details which could be adapted to the particular problem

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they happened to face.

In planning a new synthetic endeavor they tried to lean on the experience of others in analogous situations.

This suggested to us that a smaller and hence more tractable book may be needed, a volume which can be kept on or near the bench to make examples of fundamental

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methods readily available in the laboratory. Such a collection could save numerous short trips to the library, a point particularly important where a library well equipped with the sources of the literature of peptide synthesis is not near at hand. Also, we thought that the envisaged book may be

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welcome by those who are more versed in English than in German. To our best knowledge no similar publication is available.

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resources in the initial and continuing teacher training to improve them, as well as in the teaching of different subjects to achieve a better academic and social performance of students. Besides, the reader will find some innovative experiences in physical education to achieve a better physical, emotional, and

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students.

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Fourteen-year-old
Lincoln Mendoza, an
aspiring basketball
player, must come to
terms with his divided
loyalties when he moves
from the Hispanic inner
city to a white suburban
neighborhood. Reissue.
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procedure and help to arrive at a complete plant design. The chapters are arranged in sections pertaining to heat and mass transfer processes, reacting systems, plant hydraulics and process vessels, plant auxiliaries, and engineered safety as well as a separate chapter showcasing

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functional system and not merely the design of major equipment. Provides design procedures as pseudo-code/flow-chart, along with practical considerations.

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