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Designing A Hand

# **Chemfax Designing A Hand Warmer**

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Designing A Hand  
Warmer

## **A Hand Warmer**

The purpose of this advanced inquiry lab is to design an effective hand warmer that is inexpensive, nontoxic and safe for the environment. The investigation begins with an introductory activity to become familiar with the principles of calorimetry and heat of solution calculations.

**Catalog No. AP7654**

*Page 5/26*

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Designing A Hand

**Publication No. 7654**

**WEB Designing a ...**

Designing a Hand Warmer Purpose: To determine the best ...  
Lab #12 - Designing A Hand Warmer It's time to put your chemistry skills to commercial use. From instant cold packs to flameless ration heaters and hand warmers, the energy changes accompanying physical and chemical transformations have

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Designing A Hand  
Warmer

many consumer applications.

**Pdf Chemistry  
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Answers | id ...**

One type of hand warmer contains a mixture of dry chemicals, including among other things powdered iron and salt. When exposed to air and moisture the iron oxidizes. The oxidation reaction is exothermic

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Warmer  
and gives off a gentle  
heat to warm hands.

**AP Chemistry:  
Designing an  
Effective Hand  
Warmer**

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Designing a Hand  
Warmer Lab

Introduction: This lab will require you to put your chemistry skills to commercial use! From instant cold packs to flameless ration heaters and hand warmers, the energy changes accompanying physical and chemical

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Warmer

transformations have many consumer applications. The backbone of these applications is

**Designing a Hand Warmer Lab - science with ms. hall**

Designing a Hand Warmer Lab. Purpose Statement. The purpose of this lab is to investigate the energy changes accompanying the formation of solutions for common

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### Designing A Hand

laboratory salts, and then apply the results to design a hand warmer that is.

reliable, safe, and inexpensive. Partners. Sana Navaid. Madeline Crowley. Michelle Shumiatsky.

Introduction. 1.

### **hand warmer lab | Temperature | Applied And ...**

To find the best solid to create an effective hand warmer a

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Warmer  
calorimeter was used. The solid with the highest endothermic reaction with  $33^\circ$  created, was LiCl which had a cost of \$68.30 per kilogram. Since this lab was made to discover a cheap costing solid, LiCl does not fit the requirements. LiCl is too expensive.

## **Designing a Hand Warmer by Xochitl Benitez - Prezi**

Chemfax is a Calgary,

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Warm

Alberta based company that has grown

tremendously over the past decade. Chemfax proudly operates out of a 60,000 sq. ft. State-of-the-Art facility which includes one of the largest Class 1, Division 1, flammable liquid handling areas in Canada. Read more for details

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Manufacturer of  
Specialty Chemicals.**

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### Designing A Hand

Warmer

What substance creates the best handwarmer? In order to test which substance will be the most efficient, calorimetry must be used. Calorimetry is the measurement of the amount of heat evolved or absorbed in a chemical reaction, change of state, or formation of a solution. Well

## **The Hand Warmer**

*Page 14/26*

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**Design Challenge by  
Jason Santana**

Alexis Salim Lab Group

5 03 February 2017

Handwarmer Lab

Report I. Purpose: The purpose of this lab was to test different chemicals to measure the heat transfer in order to apply calorimetry in chemistry to determine which chemical would be most effective in designing a good hand warmer that is safe

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and reliable. II.

Background: Hand warmers are used to provide heat to cold hands during the ...

**Handwarmer AP  
Chem Lab Report -  
Alexis Salim Lab  
Group 5 ...**

Designing A Hand  
Warmer Pre Lab  
Answers Heat  
approximately 125 mL  
of distilled water to  
60—70 °C in a 250-mL  
beaker. Using



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Warmer  
heat—resistant gloves,  
measure 100.0 mL of  
the hot water in a  
100—mL graduated  
cylinder. Measure and  
record the temperature  
of the hot water.

Immediately

## **Designing A Hand Warmer Pre Lab Answers**

Propose the optimum  
design for the most  
cost-effective hand  
warmer that is  
nontoxic and least

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### Designing A Hand Warmer

harmful to the environment. Solid Cost (\$)/Kilogram  
NH<sub>4</sub>Cl 21.90 CaCl 10.80 LiCl 68.30 NaCH  
CO 27.30 Na<sub>2</sub>CO<sub>3</sub> 5.95 NaCl 4.25  
6. With your instructor's permission, verify the design and demonstrate the use of your hand warmer.

### **John Bowne High School**

PURPOSE: to determine which of the 3 ionic compounds (NaCl, LiCl,

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### Designing A Hand Warmer

or  $\text{NaCH}_3\text{COO}$ ) is most suitable for use as a hand warmer

PROCEDURE: DAY 1

(Part 2 only): 1)

Measure out 2

separate samples of 100.0 mL of distilled water

2) Heat one to about  $50^\circ\text{C}$ , and place other one in

calorimeter (at around  $20^\circ\text{C}$ )

3) Add heater water to calorimeter, cover top, wait 15 seconds, measure

temp 4) Repeat DAY 2:

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Warmer  
1) measure 40mL of  
distilled water into a  
styrofoam cup on stir  
plate 2) record temp of  
water 3 ...

**Designing a  
Handwarmer Lab  
Report (AP  
Chemistry) Essay ...**

IN7654 040313 Catalog  
No. AP7654 Publication  
No. 7654 Designing a  
Hand Warmer AP\*  
Chemistry Big Idea 5,  
Investigation 12 An  
Advanced Inquiry Lab

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Introduction Put your chemistry skills to commercial use! From instant cold packs to flameless ration heaters and hand warmers, the energy changes accompanying physical and chemical transformations have many consumer applications.

**Designing a Hand Warmer - Catalog No AP7654 Publication No ...**

*Page 21/26*

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Warmer  
Amazon.com : Zippo  
Hand Warmer, Black  
Matte : Camping Hand  
â€¦ | www.amazon.com >  
â€¦ | > Safety & Survival  
> Hand & Foot Warmers

The first time I filled  
and started my Zippo  
handwarmer, I was  
pretty unimpressed.

The filling process  
seemed pretty  
cumbersome, and the  
warmer â€¦ DOLORES

GENDE: AP PHYSICS :  
LAB EXPERIMENTS

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Warmer ap lab

**answers - Bing**

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**Chemistry - Flinn**

- Thermodynamics has many interesting applications in daily life, from instant cold packs to hand warmers or “MREs”—meals-

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Warmer  
ready-to-eat. Extend  
the lab to design an  
effective instant cold  
pack or hand warmer.  
Alignment with AP  
Chemistry Curriculum  
Framework—Big Ideas  
3 and 5 Enduring  
Understandings and  
Essential Knowledge

**Thermodynamics—E  
nthalpy of Reaction  
and Hess's Law  
SCIENTIFIC**

Lab #12 - Designing A  
Hand Warmer - LHS AP



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Warmer

Chemistry Catalog No.  
AP7644 Publication No.  
7644 Kinetics of Crystal  
Violet Fading AP\*

Chemistry Big Idea 4,  
Investigation 11 An  
Advanced Inquiry Lab  
Introduction Crystal  
violet is a common,  
beautiful purple dye. In  
strongly basic  
solutions, the bright  
color of the dye slowly  
fades and the ...

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