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1. This lab demonstrated that various chemicals can have different energy changes. The. desired purpose was achieved because the energy changes were noted when determining. what would be considered an effective hand warmer. 2. The results show that  $\text{Na}_2\text{CO}_3$  is the most cost-effective solute when creating the hand. warmer.

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

Designing a Hand Warmer AP\* Chemistry Big Idea 5,

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Investigation 12 An Advanced Inquiry Lab 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. The backbone of these

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## **[EPUB] Chemfax Labs Answers Hand Warmer**

This is a video outlining a Flinn Lab on designing a hand warmer. It was created by Alex Brinley, Charis Conwell, and Siena Joy for our AP Chemistry class.

## **Designing a Hand Warmer Lab**

Experiment Overview: 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.

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

The chemical that will likely be the best for use in a hand warmer is the sodium carbonate because it is the least toxic of the three chemicals while still producing an exothermic reaction.  $q_{aq} = \text{Mass} \times \text{Specific Heat} \times \text{Temp Change}$   
 $q_{cal} = \text{Temp Change} \times C_{cal}$   
 $q_{soln} = - (q_{aq} + q_{cal})$

## **Designing a Hand Warmer by vicki smith - Prezi**

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 and gives off a gentle heat to warm hands.

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

$q_{\text{soln}} = 48.636$ . Based on the results of the lab, hand warmers will benefit most with the use of LiCl since it raised the temperature of the solutions to about 19 degrees Celsius. The only issue with LiCl is that it is very expensive compared to the other materials (\$32.75 per 500 grams).

## **The Hand Warmer Design Challenge by Jason Santana**

Address: P.O. Box 219 Batavia, IL 60510: Phone: 800-452-1261:  
Fax: 866-452-1436: Email: flinn@flinnsci.com

## **Flinn Scientific**

Lab correlates to the College Board Investigative Labs, and also a list of additional required lab equipment and supplies such as balances, spectrophotometers, and common laboratory glassware. As always, please call or email (800-452-1261 or flinn@flinnsci.com) Flinn Scientific if you have any questions.

## **Flinn Advanced Inquiry Laboratory Kits for AP Chemistry**

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Chemistry Designing A Hand Warmer Lab Answers AP Chemistry Lab #10- Hand Warmer Design Challenge (Big Idea 5) 5A2: The process of kinetic energy transfer at the particulate scale is referred to in this course as heat transfer, and the spontaneous direction of the transfer is always from a hot to a cold body  
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## **AP Chemistry Designing a Hand Warmer Lab**

In a hand warmer an exothermic reaction takes place. When the solid is mixed in with the liquid (usually being water, H<sub>2</sub>O) the solid dissolves, dissolving can be a physical or chemical change. When the solid molecules stay intact meaning their crystal lattice does not change, there is a physical change.

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