

Searching and Presenting Information about the Uses of Chemical Energy in Daily Life

Student Handout

Purpose

To search for and present information about the uses of chemical energy in daily life.

Introduction

There are numerous examples of the uses of chemical energy in daily life involving exothermic and endothermic reactions. In winter or when you travel to cold places, you may probably wish to purchase heat packs to keep you warm. In sports, athletes often receive bruises and cold packs are usually applied to the inflamed areas to reduce swelling. In this activity you will apply your information technology skills to search for the uses of chemical energy in daily life.

Tasks

1. From suitable sources, find out the uses of chemical energy in daily life. You may have access to the information in books or you could use the Internet. You can start your information search from the following web sites:
 - ◆ http://nobel.scas.bcit.ca/debeck_pt/science/hotColdPack/pack_p1.htm
 - ◆ <http://www.howstuffworks.com/question290.htm>
 - ◆ http://www.packworld.com/cds_print.html?rec_id=13583
 - ◆ <http://jchemed.chem.wisc.edu/JCESoft/CCA/CCA3/MVHTM/CANHEAT/CANHEAT.HTM>
2. Extend your search using the search engines and appropriate key words.
 - ◆ <http://www.metacrawler.com> (a multi-threaded search engine)
 - ◆ <http://www.google.com>
 - ◆ <http://www.yahoo.com>
 - ◆ <http://www.altavista.com>
3. Extract relevant information on the uses of chemical energy in daily life. Find out the ingredients of one of the products that are available in the market and explain the relevant chemical principle. Summarise your findings in your own words by writing an extract (no longer than 500 words), a PowerPoint presentation or web pages. Use chemical equations and diagrams where appropriate. Your work will be uploaded to school's Intranet for sharing with other students.