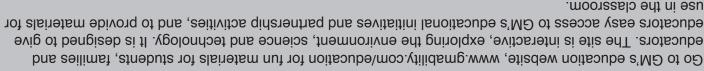
Activities should not be attempted without adult supervision.

Written by Jennifer Boxer and Dr. Kenneth Phillips, illustrated by Dennis Smith







Explore Some More:

parabolic reflector is used to gather sunlight and concentrate it to a point. absorb enough energy from the Sun to generate all the electricity needed to run the Space Station. A apples. On Earth some of us use solar energy to warm our homes and water. In space, large solar panels

you connect more potatoes, pennies and nails, your battery will increase in power. - in this case, the reaction among the acid in the potato, the copper in the penny and the zinc in the nail. If

4. You Are My Sunshine. Your solar energy machine collects heat energy from the Sun to warm up your

out of a potato. Batteries create electricity from chemical reactions шешризие 3. One Potato, Two Potato. Believe it or not, you made a battery to Oxygen pass through

runs on fuel cells and astronauts drink the pure water they make electricity, water, molecules and heat. The Space Shuttle occurs in a fuel cell, where hydrogen and oxygen combine to in a process called water electrolysis. The opposite process water. The hydrogen and oxygen are dissociated, or separated, strips are evidence of the gases you have separated from the hydrogen for fuel cells. The bubbles you observe around the tin 2. Say "Hi" to Hydrogen. Water (H₂O) is a possible source for

the skateboard.

panels, and steering columns. The driver can sit anywhere in the vehicle and different tops can be placed on fuel cells, brake system and electric motors. Hand-operated controls replace traditional foot pedals, instrument a hydrogen fuel cell. The skateboard chassis is aerodynamically efficient and designed to house the vehicle's 1. Decks, Trucks and Wheels. AUTOnomy is a futuristic concept vehicle designed by GM and powered by

:gninaqqsH 2'tsHW

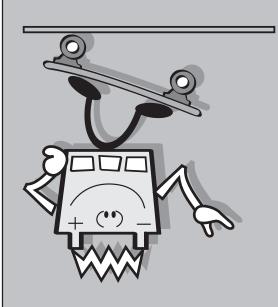




 $H_2O = water$

OXAGEN

A JOURNEY TO OUR FUTURE"



WBATTERIES REQUIRED.

Hydrogen Protons attracted

HYDROGEN

through a circuit producing attracted to Oxygen pass Hydrogen Electrons

FUEL CELL

electricity

Some Powerful Activities about Fuel Cells and the Future

You probably know there aren't any gas stations in Space, right? The astronauts can't pull for vacations here on Earth, is a challenge that might someday be solved by fuel cells.

