Professor Gizmo's Fun & Science

Show meets National Science Education Standards (Science as Inquiry) and has been carefully structured for easier learning.

HOW:

Students

- to form a hypothesis
- animals use camouflage
- plants use water, carbon dioxide & sunlight
- carbon becomes a diamond
- ENERGY makes things happen
- Scientist classify animals into groups
- water vapor cools to form clouds
- our pupil helps us to see in the dark
- Bernoulli's Principle enables birds to fly
- to reduce, reuse and recycle

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Hypothesis - An unproved theroy or an "educated" guess. Predicting the answer to the problem.

Experiment - A test designed to confirm or disprove your hypothesis.

Photosynthesis - The word photosynthesis means "putting together by light". During the process, plants collect energy from sunlight. They use this energy to turn water and carbon dioxide into a simple sugar called glucose.

Energy - Energy makes things happen, from a bolt of lighting to trying a shoelace. Nothing could live or move without energy. All of our energy traces its source to the sun.

Carbon Dioxide - A heavy, colorless, odorless gas; it passes out of the lungs in respiration. It's the stuff we make when we breathe.

Pollution - Substances, such as waste chemicals from factories, that damage or poison our air, land and water.

Animal Classification - Birds come in many shapes, sizes, and colors. But whatever their size or color, they all have feathers and wings, and they all lay eggs.

Minerals - All the land on our planet rest on a layer of rock made up of minerals. Diamonds are the hardest mineral on Earth. Talc is the softest mineral.

Eye Parts - Rays of light first pass through your **cornea**, a transparent covering on the outside of your eye. Next light goes through the **pupil**, which is a whole in the middle of the **iris**. The iris, the colored part of your eye, helps the pupil open and close. After light rays pass through the iris, they go through the **lens**. The lens focuses light rays onto the surface at the back of the eyeball, called the **retina**. Inside the retina, light rays change itn electrical signals. These signals travel along the **optic nerve** to your brain.

Recycling - Experts estimate that 75% of our waste is recyclable.

Reacing Lis

What if: Mind-Boggling Science Questions for Kids

Robert Ehr John Wiley & Sons, Inc., 1998

Photosynthesis: Changing Sunlight into Food

Bobbie Kalman Crabtree Publishing Co., 2005

What is the Animal Kingdom Kathryn Smithyman Crabtree Publishing Co. 1998

Science In Seconds for Kids Jean Potter John Wiley & Sons, Inc. 1995

Time for Kids Almanac Time for Kids Media Group Published By Time, Inc. 2008

Magic Science for Kids Jim Wiese John Wiley & Sons, Inc., 1998 The New 50 Simple Things Kids Can Do to Save the Earth Sophie Javna & Earthworks Group Andrews McMeel Publishing 2009

IOI Things Every Kids Should Know About the Human Body Samantha Beres Published by Lowell House, 2000

The Weather Detectives: Fun Facts & Experiments for Kids Mark Eubanks & Mark Hicks Gibbs Smith Publishing, 2004

Links

www.billnye.com www.beakmansworldtv.com www.tryscience.org www.howstuffworks.com