

FEBRUARY

Play with shadows: does distance from the light source to the surface make a difference? Angle of the light source? Why?

What time will you need to get up February 4 to check on the groundhog?

How much do you think you would need to eat in the fall to be able to hibernate all winter? What animals hibernate?

Household ammonia turns goldenrod paper red (temporarily)! Make secret Valentines using yellow crayons, which will resist the ammonia. Use caution!

Flying film canisters: Wearing safety goggles, fill a film canister 1/4 full with water, drop in an Alka-Seltzer tablet, put the lid on and turn it over. Watch out!

Experiment with creating various shades of red paint by adding white, black, gray, brown, blue, or yellow.

What causes the natural red color in foods such as strawberries?

Fun heart facts for kids: <http://www.sciencekids.co.nz/sciencefacts/humanbody/heart.html>

Get active and keep your heart healthy! How many jumping jacks do you think you can do? Do them every day and track your improvement.

Using just the materials available in your room, challenge the children to make "hearts". Include legos, wood blocks, and other non-typical materials.

Whitehouse blueprints!
<http://www.bing.com/images/search?q=white+house+blueprints&qpvf=white+house+blueprints&FORM=IGRE>

Part 1. Demonstrate how blood pumps through the body by creating a heart water bottle. Fill a squeezable water bottle with water, then add about 20 drops of red food coloring. Insert a straw halfway into the water bottle opening, and use duct tape to seal the straw to the bottle.

Part 2. When you squeeze the water bottle, red water will come up through the straw, demonstrating how the heart pumps blood through the arteries in the heart.

Seven Layer Density Column: <http://www.stevespanglerscience.com/lab/experiments/seven-layer-density-column>

Have the children determine the ratio of boys to girls in your class or program. How does this compare to their school class?

Does exercise increase your heart rate? With a friend, count your heart rate before and after doing 20 jumping jacks.

Thinking ahead to summer camp, are there any construction projects happening nearby that you could observe and learn about?

Find out what science topics the school(s) will be covering and prepare to support this learning afterschool.

How many jumping jacks can you do now? How much did you improve?

Why are there only 28 days in February?

