



Science Fair Projects

Pre-K to 2nd Grade

Magnets (magnetic shield)

Purpose

Your jacket shields your skin from the cold wind. An umbrella shields you from the pouring rain. A shield will not let things go past it. Can you make a shield for a magnet? What will keep it from attracting?

Materials

A magnet, paperclips, drinking glass, tin can, paper, dish, water, and record page.

Experiment

Put a couple paper clips in a drinking glass. On the record page, record whether you think the magnet will attract the paper clips. Move the magnet under the glass. Record the actual result.

Put a few paper clips on a table. Cover them with a sheet of paper. Record whether you think the magnet will pick up the paper clips. Pass the magnet over the paper. Record the actual results.

Put paper clips in a tin can. Record your prediction. Pass the magnet under the can and record the actual result.

Put a few paper clips in a dish. Cover the paper clips with water. Record your predictions. Pass the magnet over the surface of the water. Record the result.

Try testing other materials such as wood, cloth, plastic, leather, cork and rubber. Fill out the record page.

What materials will block the power of a magnet? List the materials you will be testing. Make your guesses, test your materials, and record the actual results.

Results: The materials that are magnetic shields are _____.

This project is from Daryl Vriesenga's book, *Science Fair Projects, Grades 1-3*, Michigan, Schaffer Publications, 1992. The Guide is available on line at: SchooDoodle.com