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Science Adventures: *Take the Adventure Home*

Fun hands-on science activities to engage your child in discovery learning

Wind Power

By *Andy the Science Wiz*

What you will need:

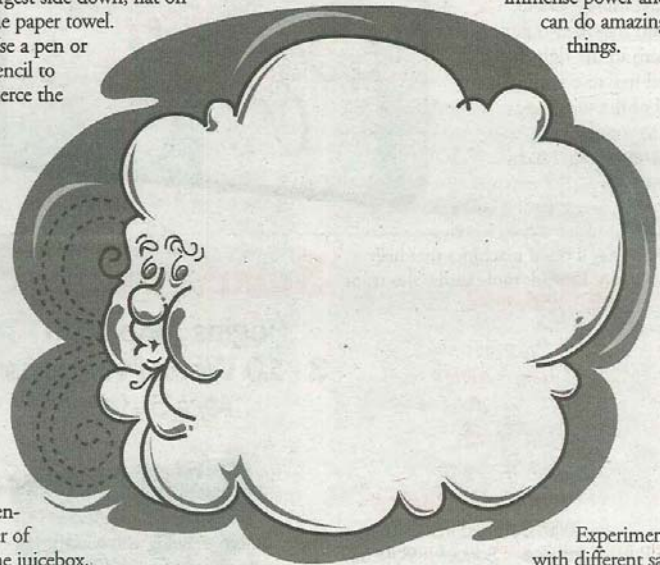
- 1 juicebox (full)
- 2 straws
- 1 grape-sized piece of modeling clay
- 1 sheet of paper
- 2 toothpicks
- 1 pen or pencil
- 1 pair of scissors
- 1 roll of clear tape
- paper towels

What to do:

1. Take the juice box and carefully remove the straw. Have the bowl handy to catch any drips. Place a few paper towels on a counter. Place the juicebox largest side down, flat on the paper towel. Use a pen or pencil to pierce the

4. For the final touch, cut the second straw in half and tape it to the front of the boat as a forepeak.

Find a place to sail your boat. If you are inside, use your own wind power by blowing to fill the sails. What do you think of wind power? For thousands of years and until the invention of the steam engine, sail power was the fastest way to travel. It was the only way to explore new and distant lands. Today, as we look at harnessing the power of our planet to produce cleaner, renewable energy, wind power is being put to work once again. From giant wind turbines that spin to produce electricity to cruise ships that are using sails to help them run the engines less, wind has immense power and can do amazing things.



center of the juicebox.

Carefully pour all the juice into the bowl. What you do with the juice is up to you.

2. Next have an adult help you cut out a square from the top of the juicebox. Use the hole punched by the pencil to get started. Leave 1/2 of an inch border around the top of the juicebox to stop water from splashing in when you set sail. You now have the basic structure of your boat.

3. Draw the pattern for the sail and cut it out. Use a pencil to make two holes in the top and bottom of your sail. Push one of the straws through the openings and use the toothpicks to hold it in place by pushing them through the paper around the straw. Smash a small clay ball so it attaches to the inside, bottom of the boat. Push the straw into the clay at the bottom of your boat.

Experiment with different sail shapes to see which shape works the best to get your boat moving.

Andy the Science Wiz (Andy Allan), scientist and educator with Science Adventures, is passionate about inspiring a world of learners through hands-on science fun. Through the Science Adventures programs and experiments like these, Andy offers children hands-on interactions with science that keeping children on the cutting edge of discovery.

Science Adventures Children's Camps take science education out of the classroom to spark an interest in the world of science and discovery. The 2009 summer camps, now open for enrollment, incorporate hands-on, interactive lessons designed to offer children new ways to learn through exploration, teamwork and engaging projects. Science Adventures programs are offered to students ages 5 to 12 years.

For more information, visit www.scienceadventures.com.