



Windmill to Help Reverse Climate Change

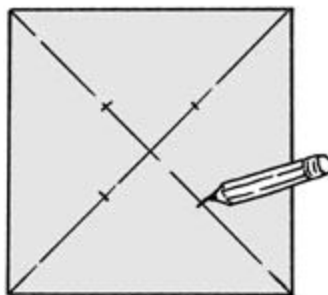
Objective: This craft will teach you about how windmills are helping to reverse climate change. You will think about ways that you can help to reverse climate change from your own home.

Materials:

- Paper(any color), thicker than copy paper if available
- A drinking straw (or pencil or a wooden dowel if straw is unavailable)
- Push pin or needle
- Scissors
- Pencil

Instructions:

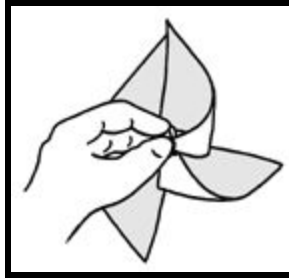
1. Cut your paper so it is a square. Try not to go any smaller than a 6x6 inch square.
2. Fold your square corner to corner, then unfold
3. Make a pencil mark about a third of the way from the center on each fold.



4. Cut along fold lines. Stop at your pencil mark.
5. On every other point write down one way you can help reverse climate change from your home.



6. Bring every other point (the points that you have not written on) into the center and stick a pin through all four points.



7. Turn your pinwheel over - make sure the pin pokes through in the exact center.
8. Roll the pin around in little circles to enlarge the hole a little. This guarantees your pinwheel will spin freely
9. Stick the pin into the end of a straw (or an alternative long stick like material)

What did we learn?

Human activity is overloading our atmosphere with carbon dioxide and other global warming emissions. These gases act like a blanket, trapping heat. In the United States, about 29 percent of global warming emissions come from our electricity sector, especially fossil fuels like coal or natural gases. By investing in renewable energy sources we can work to reverse the effects of climate change.

Wind energy (or wind power) describes the process where wind is used to generate electricity. Wind turbines convert kinetic energy (the energy that an object possesses due to its motion) into mechanical power. A generator can convert mechanical power into electricity. This renewable energy source does not produce greenhouse gas emissions like fossil fuel does.

Additional Resources:

1. Check National Geographic here:
<https://www.nationalgeographic.com/environment/energy/reference/renewable-energy/#close> for more information and videos on renewable energy.