

Age: 4+

W is for... Windmill

A **windmill** is a structure that retrieves wind from the blades and converts the wind into energy. The energy produced by the windmill can be used for grinding grains, pumping water, sawing wood. More modern windmills are used to create electricity, also known as wind turbines.

- Mechanical energy becomes electric energy.



Activity: Paper Windmill

Materials:

- Crayons/markers
- straw
- Push pin
- Scissors
- Paper

Instructions:

1. Cut your piece of paper into a square shape
2. Decorate both sides of the paper
3. Fold the paper diagonally so it turns into a triangle, crease it lightly
4. Repeat on the opposite side. Then unfold it and you should have a X crease
5. Cut along the crease, but do not cut all the way to the centerfold



6. Bend each corner into the middle.
* **Bend, do not crease**
7. Once all 4 corners have been folded, push a push pin through the center with all four corners and the straw



Job Exploration:

- **Civil Engineer:** A civil engineer designs, builds, operates, and constructs infrastructure projects and systems. This includes roads, buildings, airports, tunnels, dams, bridges, and water supply and sewage treatment.
- **Agricultural engineers:** agricultural engineers work to solve problems with power supplies, efficiency of machinery, pollution, and processing of agricultural products.
- **Energy engineer:** They work to solve energy efficiency, energy services, environmental compliance, sustainable energy and renewable energy technologies.
- **Mechanical engineering:** Mechanical engineers design and oversee the manufacture of many products ranging from medical devices to new batteries.

For more info on this lesson plan and activity visit:

<https://www.easy-crafts-for-kids.com/paper-windmill.html>