



How to Make a Wind Turbine

You will need:



- 1 plastic bottle
- 1 wooden rods
- 1 drinking straw
- 1 pin
- A sharp pencil
- Cotton or string
- Sticky tape
- A piece of thick card
- Material to make your blades

Instructions:



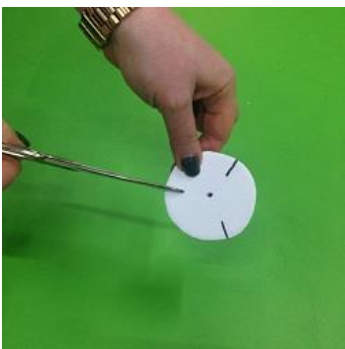
1. Using the sharp pencil, poke a hole through both sides of the neck of the plastic bottle. This will be your wind turbine tower.



2. Cut the straw to a length of around 10 to 15 cm. You don't need the bendy part.



3. Push the straw through the hole in the bottle then push the wooded rod through the straw.



4. Take the thick card, cut a circle with a 6cm diameter. Mark the centre.

Mark the edge of the circle with a straight line. Repeat this for each of the blades on your wind turbine.

For a three blade wind turbine repeat this at 120° and again at 240°. (You may need to use a protractor).



5. Using the pin, carefully attach the circle of card to the wooden rod. This will be the shaft of your wind turbine. You may need use some sticky tape to help hold it in place.



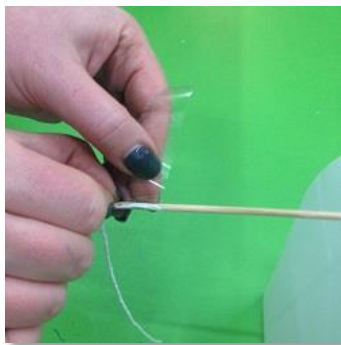
6. Take your chosen material. Draw and cut your chosen blade shape. Do this for each of your blades.



7. Cut a 1cm line in the end blade. This is to attach the blade to the wind turbine shaft.



8. Slot all of your blades into the shaft. *You may need some sticky tape to help hold it in place.*



9. Measure a length of cotton or string and attach to the end of the wooden rod with sticky tape.



10. Your finished wind turbine should look something like this!

Test your wind turbine using a fan or a hair dryer. The wind should make your blades and shaft turn and wind-up the string!

