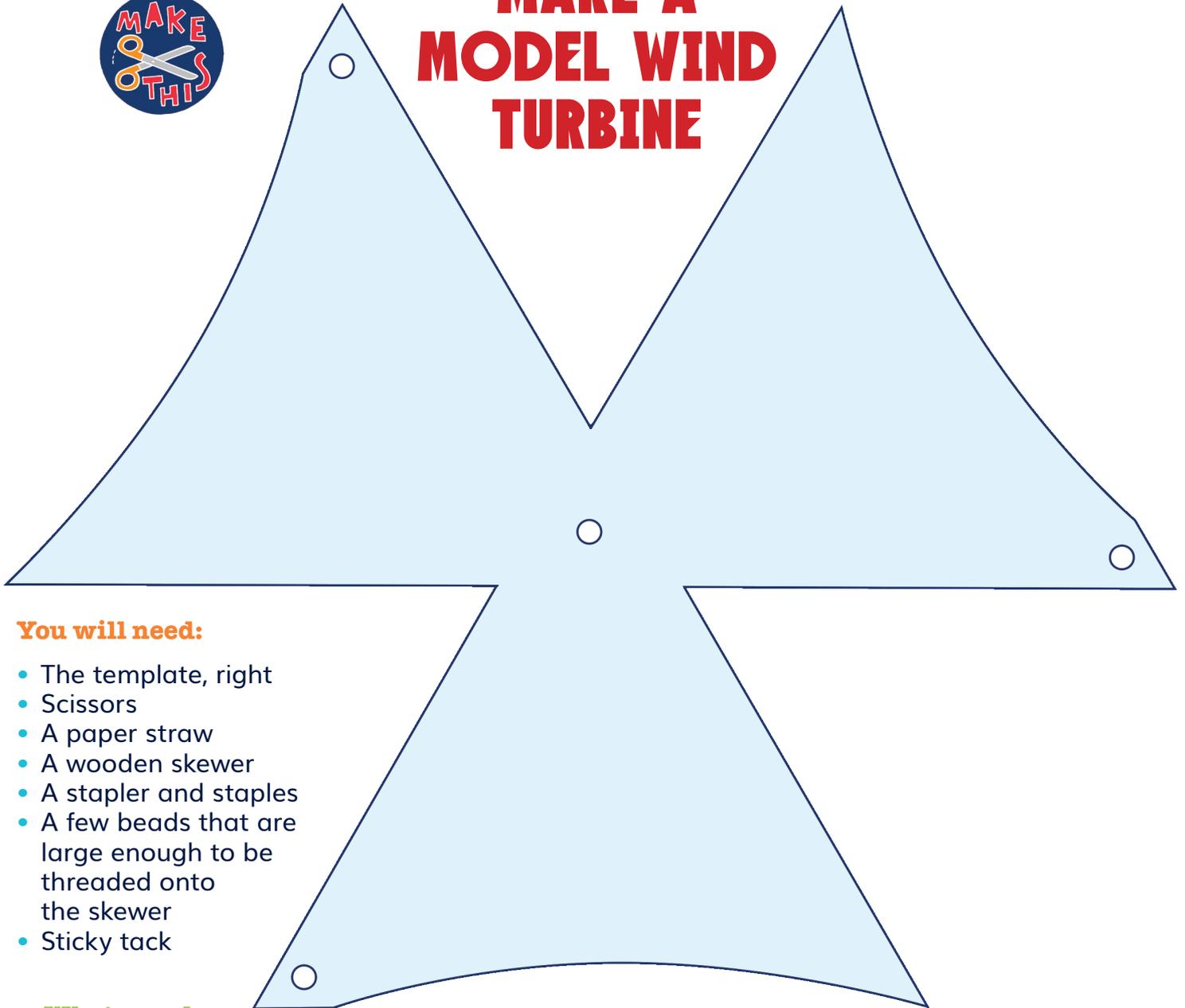




MAKE A MODEL WIND TURBINE



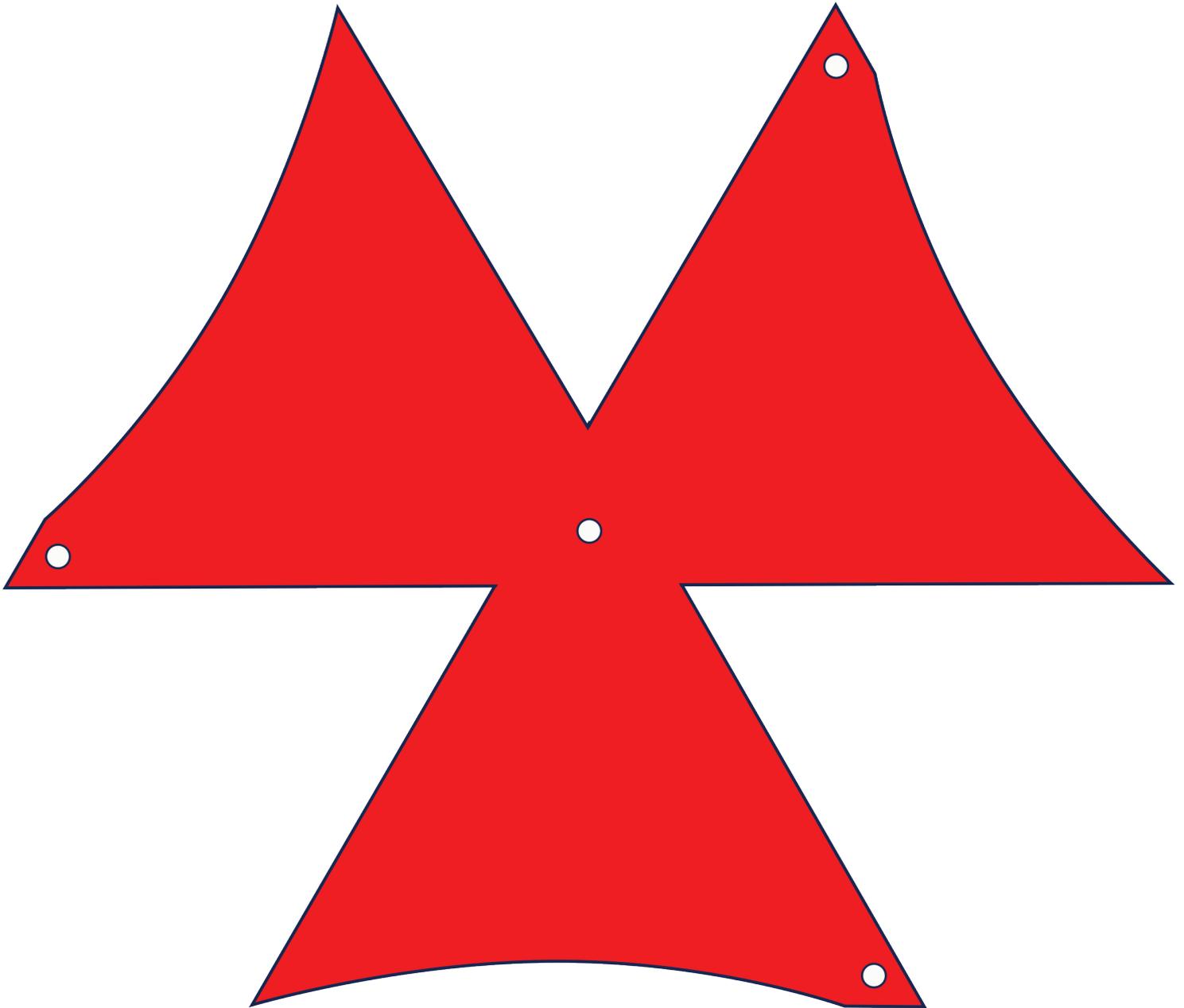
You will need:

- The template, right
- Scissors
- A paper straw
- A wooden skewer
- A stapler and staples
- A few beads that are large enough to be threaded onto the skewer
- Sticky tack

What you do:

- 1.** Cut out the shape above. Cut out the circles (you could use a hole punch if you have one).
- 2.** Ask an adult to help you make a hole through the paper straw, at least 1 cm from the end, and cut off a piece of the wooden skewer about 6-7 cm long.
- 3.** Fold each of the points with a hole in it into the centre so that all the holes line up, and staple together in one or two places near the hole. Push the piece of skewer through the holes.
- 4.** Now push the skewer through one or two beads, depending on their size, and then through the hole in the straw.
- 5.** Thread another bead onto the skewer at the front and secure the end with some sticky tack. Do the same at the back. You may need more beads or sticky tack at the back to balance the turbine. Tip: don't secure it too tightly or the turbine won't spin.
- 6.** You're all done. Give it a blow!





You should find:

The harder you blow, the faster the turbine will spin.

Try blowing the wind turbine from different angles; from the front, the side, near the top and near the bottom. How fast does it spin? Does it spin clockwise or anti-clockwise? The turbine reacts differently to different wind directions.

Real wind turbines use the wind's energy to turn propeller-like blades around a rotor. The rotor is connected to the main shaft, which spins a generator to create electricity.

