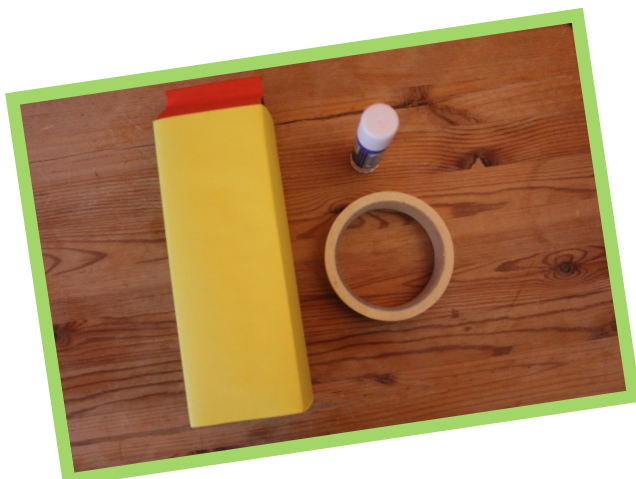# STEAM On!

MAKE A WINDMILL!

One of the most important things to think about when you design your eco friendly home is **energy**. Some electricity is made using wind, water or sunlight.

If your house can produce its own clean green energy it will be kinder to the environment.

For this project you'll need:

- Coloured paper
- A carton
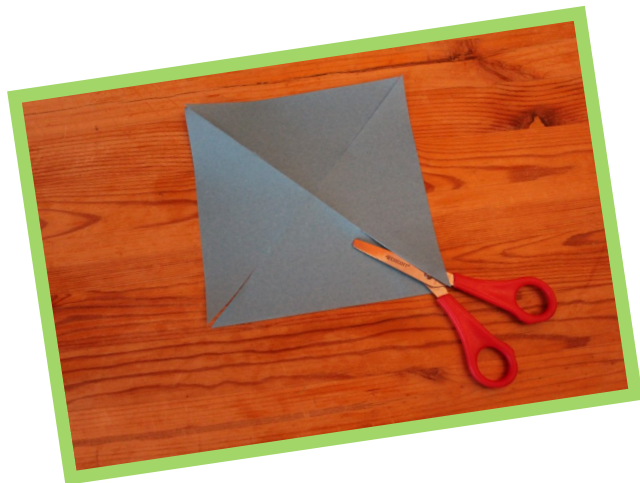- A straw (or you can make a thin tube of card and use that

Cut a strip of paper and use it to cover the top of your carton. Then wrap another piece of paper around to cover the main body. Secure the back with tape or a glue stick.
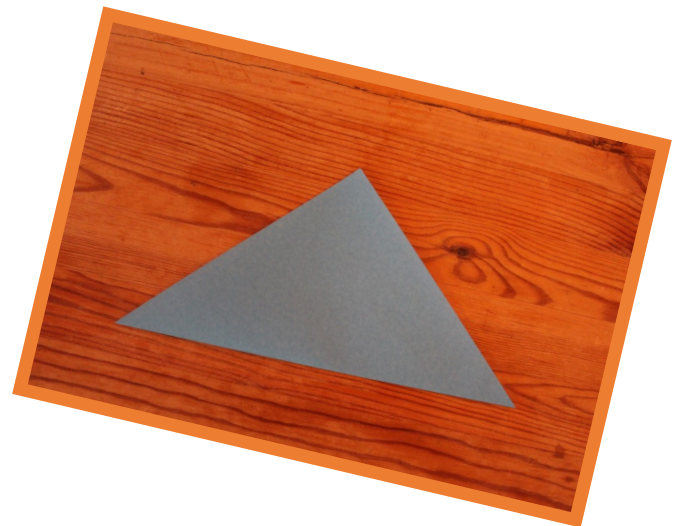
STEAM On!

Make a Windmill!

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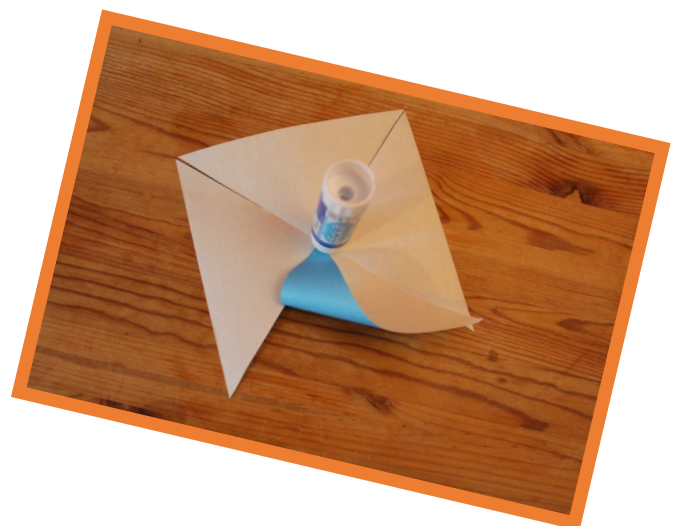Take a square piece of paper and fold it in half. Then spread it out and fold it in half the other way.

You should now have an X shape. Cut about half way in from each corner along the fold lines.

Bring one corner into the centre and stick it down. Repeat this with one corner of each triangle .
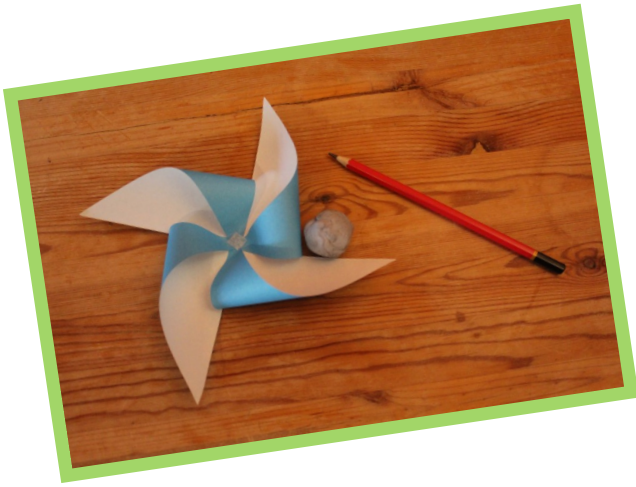
STEAM On!

Make a Windmill!

These are the sails of your windmill! To secure the corners into the centre, you might want to use a square of tape.
Use a pencil and lump of sticky tack to make a hole through the centre.

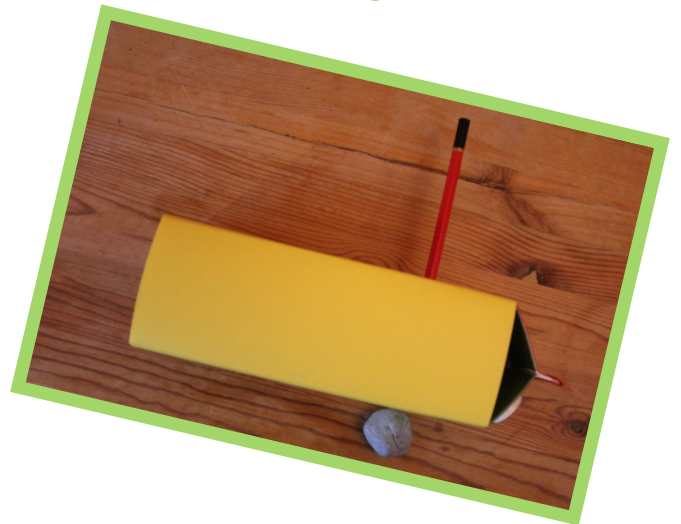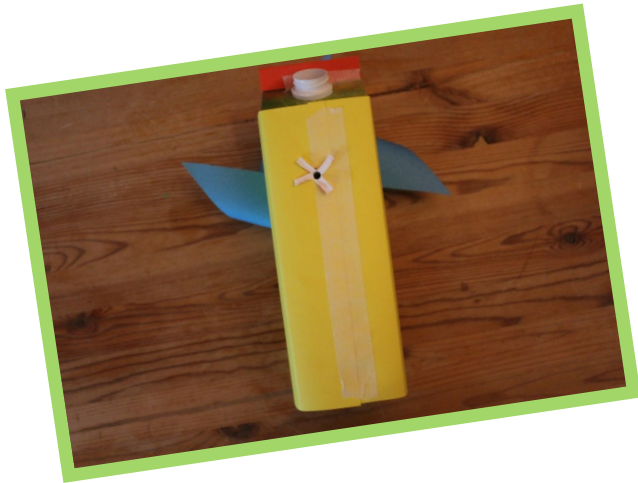Then use your pencil and sticky tack to punch a hole straight through your carton.

Now get your straw. Make four snips around the straw and bend back the tabs. They should look a bit like a star.

STEAM On!

Make a Windmill!

Thread your straw through the sails of your windmill and then through the carton. Then trim the straw down so that just about 2cm sticks out at the back.

Make four snips in this end of the straw too. Then fold them back to make another star.

That's it! You're done!

Blow on the side of your windmill to turn the sails. This works best if there is a bit of wiggle room between the sails and the carton.

If your eco home had a windmill, it could be used to make clean eco friendly electricity!