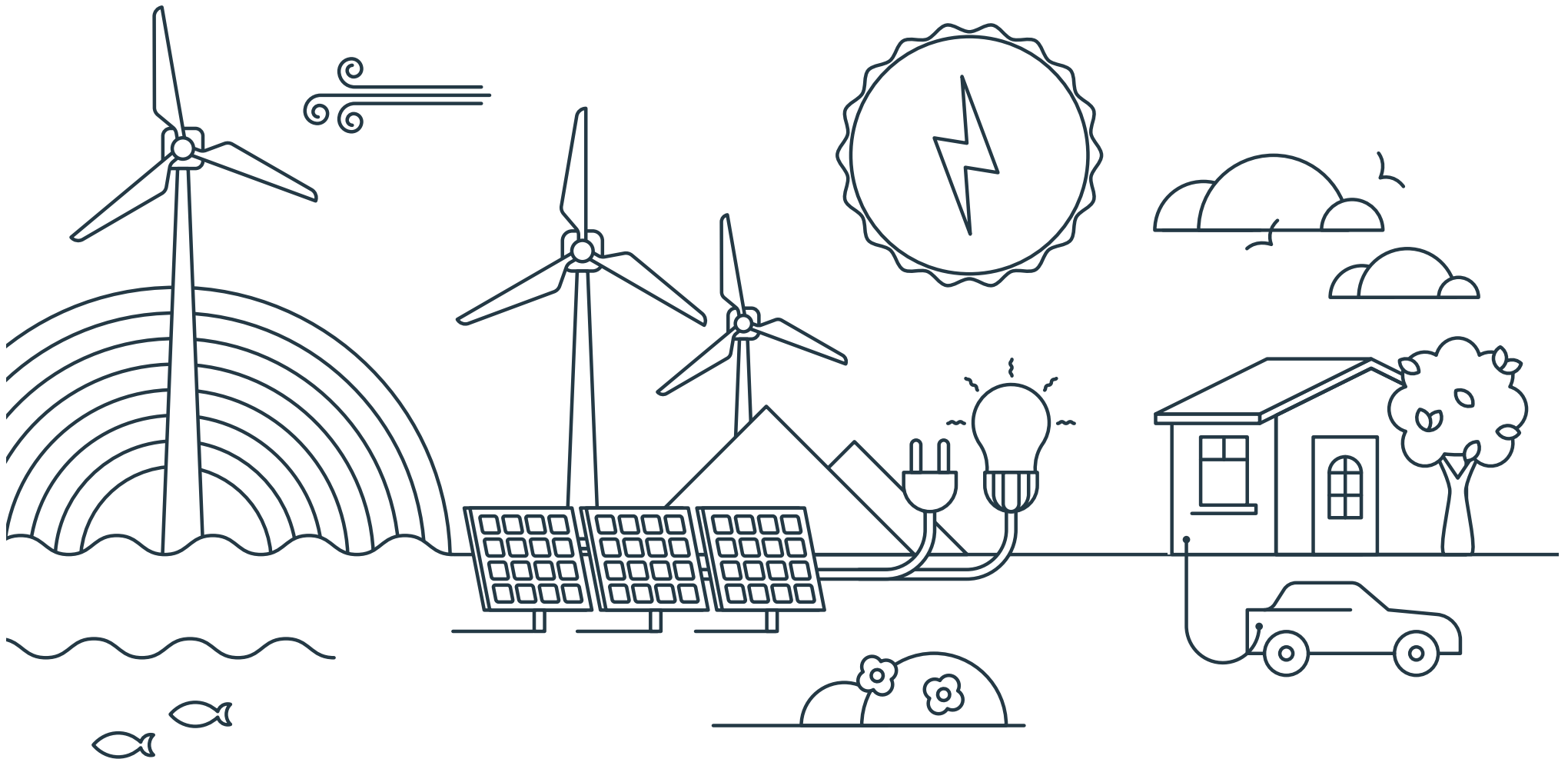


Activity workbook:

Future energy



We would love to see some examples of your finished activities, please share these on your own social media by tagging Wood.

Future energy

01

What is energy?

Energy is the ability to move or do work. Without energy nothing would happen.

Light is a type of energy we use all the time, we get light and heat from the sun, and plants turn that into useful energy. This energy makes plants grow, giving food to humans and animals so they can stay healthy.

Almost anything that moves can be used to create energy. We use wind for motion energy, you can't see it but you can feel it. Water is also a source of energy; we need to drink it every day for our own energy, but the movement of water in rivers and seas also produce energy.

Electrical energy allows us to switch on the appliances in our homes. There are many amazing ways we can create types of energy that come into wires in your own home, usually from far away.

Every one of these types of energy is very special, what do you think they look like? Use the icons below to create your own character. Bring them to life, give them arms, legs, hair, costumes - and a name!



name: _____

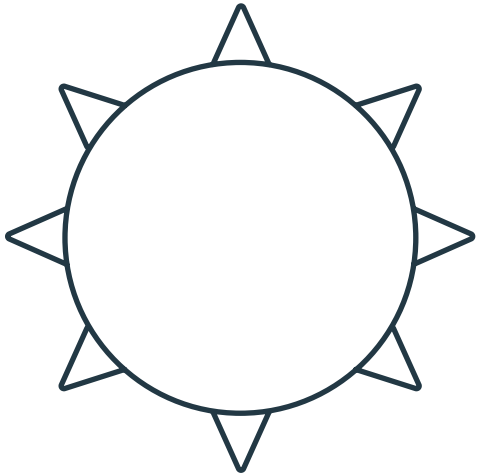
electrical



name: _____

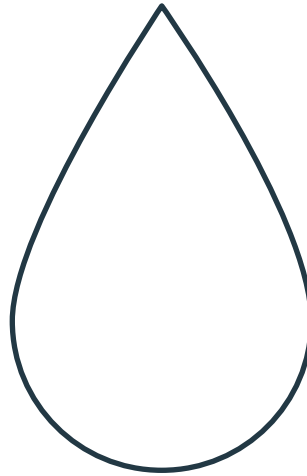
heat

Future energy: 01 What is energy?



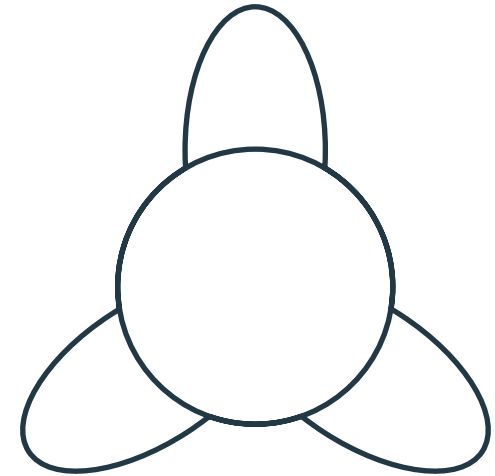
name: _____

light



name: _____

water



name: _____

wind

Future energy

02

Word search

How many energy related words can you find in the word search?

RENEWABLES

ELECTRICITY

ENERGY

CARBON

HYDROGEN

WIND

WATER

SOLAR

SUSTAINABLE

POWER

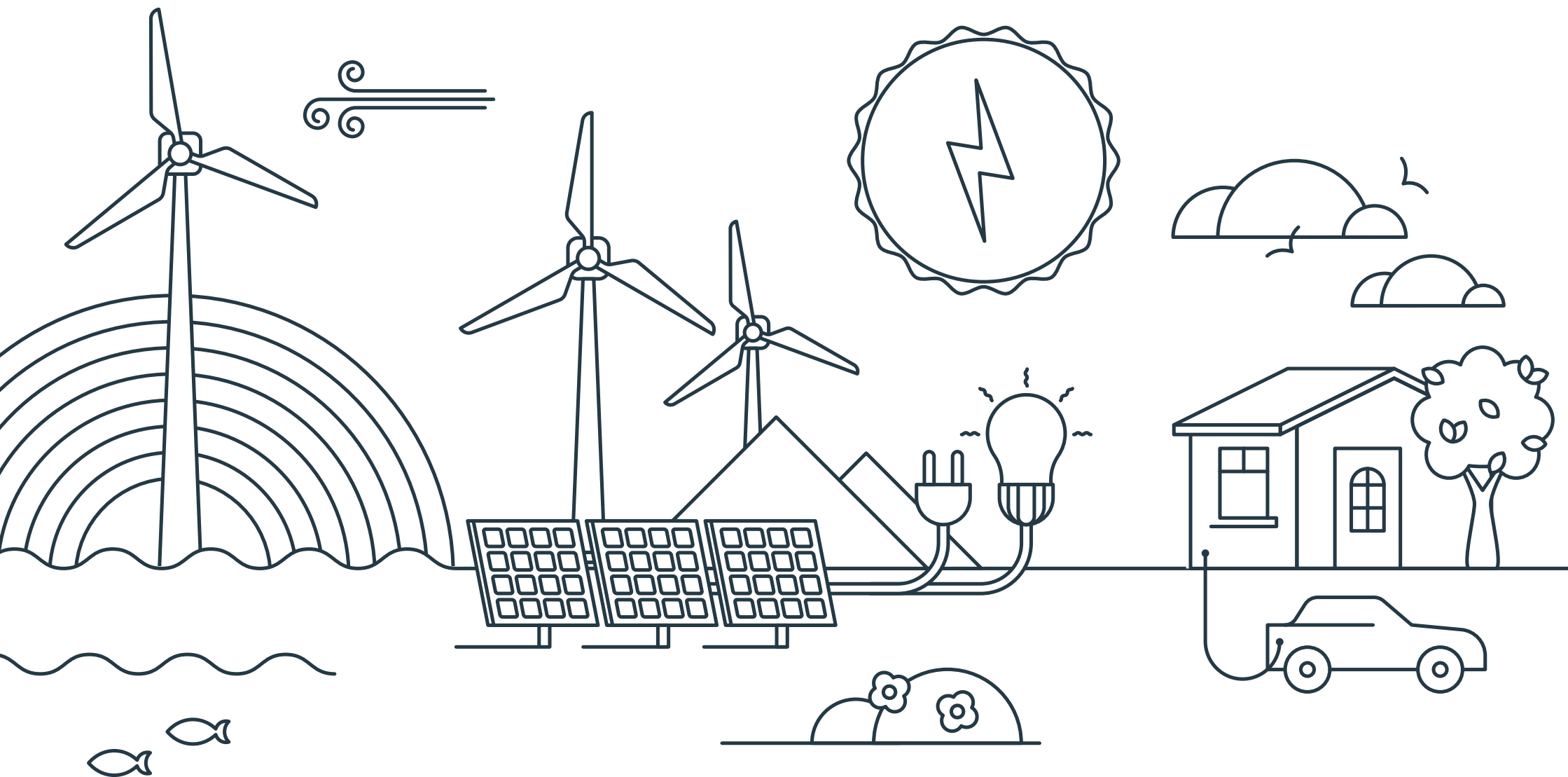
TECHNOLOGY

DATA

FUTURE

R	R	A	E	K	D	E	S	F	Q	A	H
E	E	L	E	C	T	R	I	C	I	T	Y
W	S	N	A	R	A	U	L	A	V	E	D
O	A	A	E	E	I	T	J	R	D	C	R
P	O	T	N	W	A	U	S	B	B	P	O
G	R	T	E	M	A	F	A	O	A	N	G
W	T	K	R	R	A	B	E	N	L	R	E
A	I	A	G	E	D	A	L	B	W	A	N
R	A	N	Y	H	I	A	I	E	G	A	R
T	P	E	D	A	T	A	P	O	S	S	A
S	U	S	T	A	I	N	A	B	L	E	L
Y	G	O	L	O	N	H	C	E	T	X	I

03 Colour in



Future energy

04

Wind energy

Wind energy is an invisible energy, you can't see it but it is all around us. Wind energy can do all kinds of things like blow flags, fly kites or push a toy boat. But did you know by using wind turbines we can make electricity to help lots of people power items in their homes?

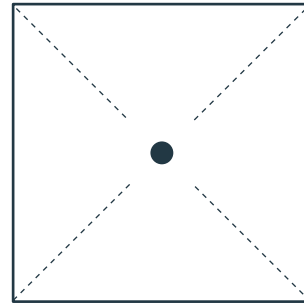
A wind turbine uses wind to make electricity. The wind turns the blades, which spin a shaft, which connects to a generator and makes electricity. The electricity is sent through power lines to a substation, then on to buildings, like homes, shops and schools.

Now that you've read about wind power, why not harness it yourself by creating a pinwheel.

You will need:

- A pinwheel cutout (see p.7)
- Scissors
- Glue stick
- Crayons or markers
- Pencil with eraser
- Push pin

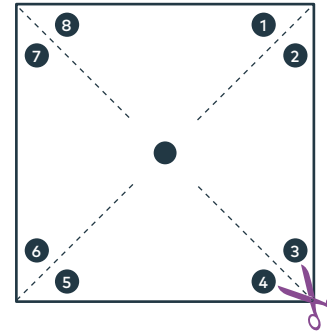
1



Start out by cutting out the template from paper or cardstock.

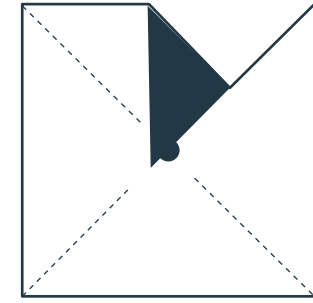
You can leave the square plain or draw some patterns or designs on it.

2



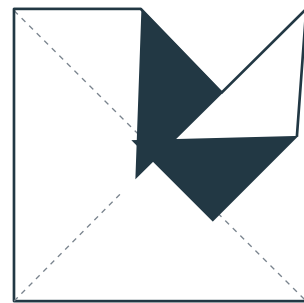
Cut along the four diagonal dotted lines. After making the four slits, you will have 8 tips on your square - these are labeled with numbers on the picture above.

3



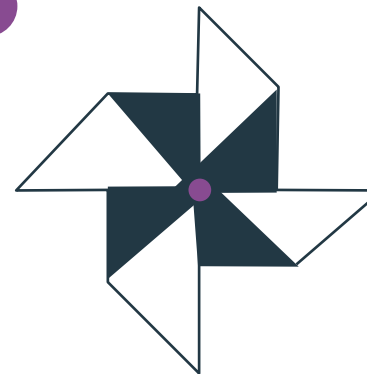
Take tip 1 and bring it to the center of the square without folding the paper and glue the tip in place.

4



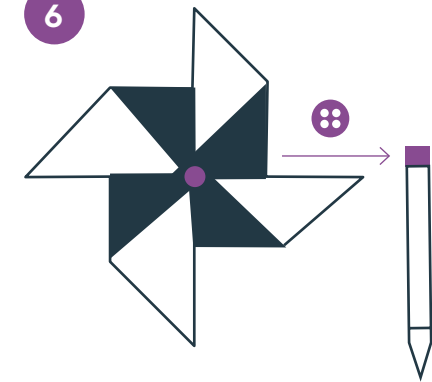
Bring tip 3 to the center of the square and glue the tip in place.

5



Repeat for tip 5 and tip 7 and insert a push pin at the center to hold it all together

6



Attach the pinwheel to a pencil by pushing the pin into the pencil's eraser. You can put a small button between the pinwheel and the eraser to help the pinwheel rotate better.

04

Pinwheel template

