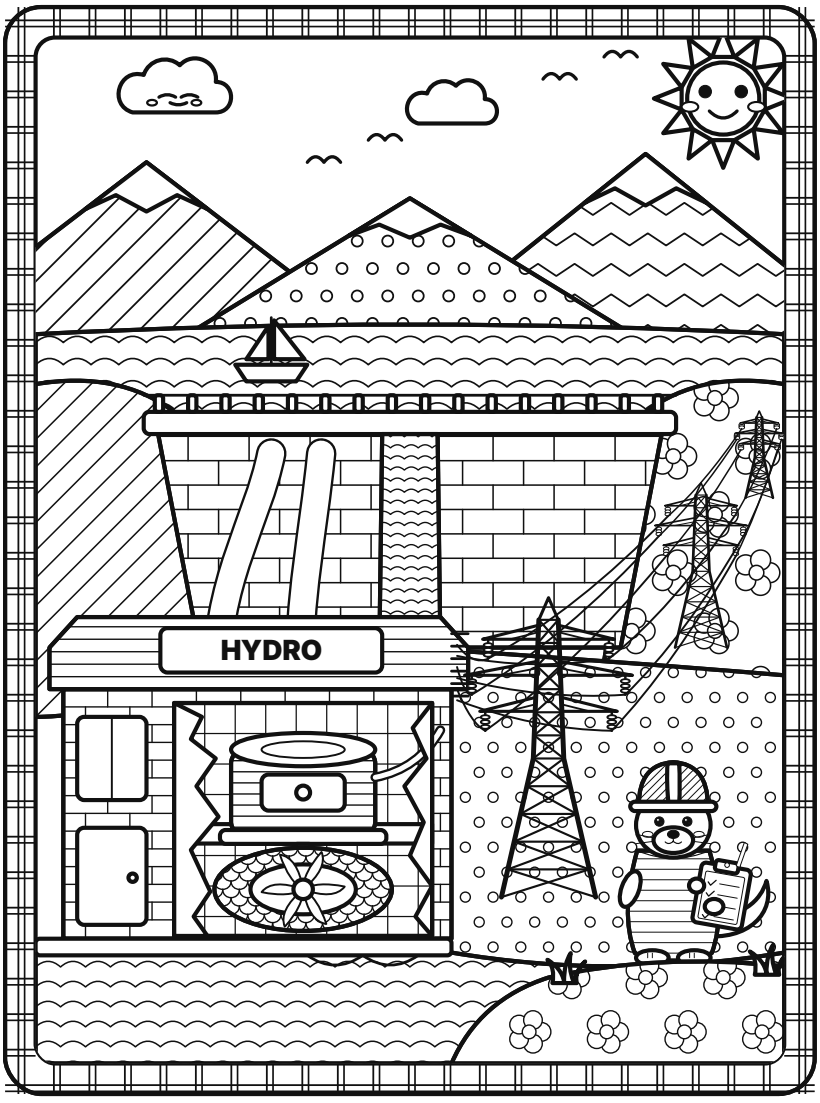
REAL-LIFE PHYSICS

Activity Book

Puzzles, colouring and brain teasers

Companion to the National 4 Physics workbooks



C. Blewis

Blewis LEARNING

Welcome

This book goes with all three National 4 Physics workbooks: **Electricity and Energy**, **Waves and Radiation** and **Dynamics and Space**. Each topic has the same theme as its workbook topic, with four activities:

IN EACH TOPIC

Colouring page	a picture from the topic to colour in
Word search	find the key words from the topic
Puzzle	a code breaker or a mystery picture, solved with simple sums
Brain teaser	a maze, number puzzle, dot to dot or spot the difference

WHEN TO USE IT

Use these pages when you finish your work early, at the end of a lesson, or any time you need a calm break.

Contents

Answers are at the back of the book.

UNIT 1: ELECTRICITY AND ENERGY

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PART 1

Unit 1
Electricity and Energy

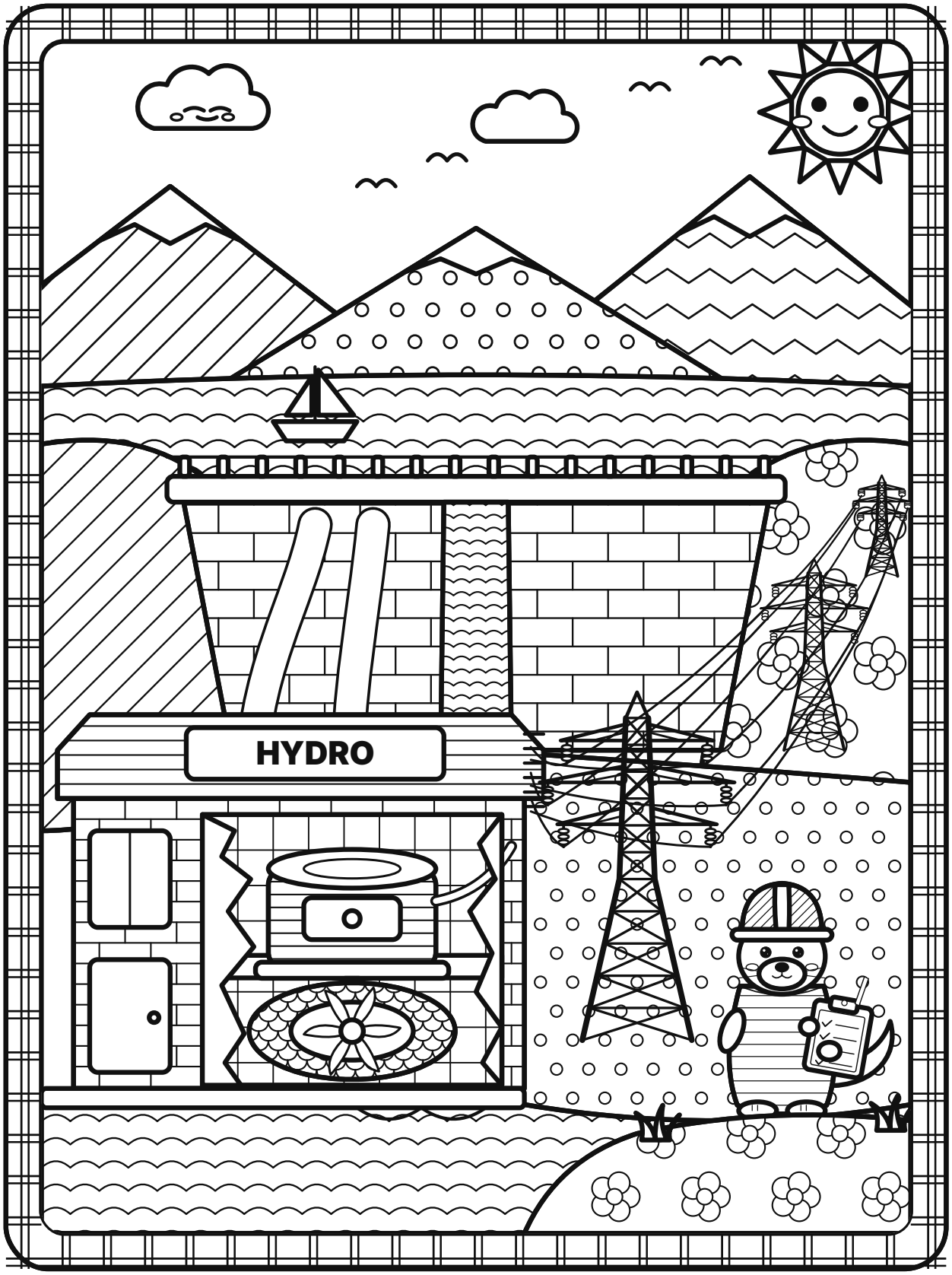
Puzzles and colouring to go with the **Electricity and Energy** workbook.

Topic 1	Generating electricity
Topic 2	Energy for the future
Topic 3	Power and energy
Topic 4	Efficiency
Topic 5	Magnets and electromagnets
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UNIT 1 · TOPIC 1 · GENERATING ELECTRICITY

Colour in: The power station

Colour the picture any way you like. Take your time with the patterns, and try to stay inside the lines.



UNIT 1 · TOPIC 1 · WORD SEARCH

Word search

Find the words from this topic. Words go across, down or diagonally. Tick each word when you find it.

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

- ☐ COAL
- ☐ ENERGY
- ☐ GAS
- ☐ GENERATOR
- ☐ NUCLEAR
- ☐ SOURCE
- ☐ STEAM
- ☐ TURBINE

CHALLENGE

Pick three of the words and explain what they mean to a partner.

UNIT 1 · TOPIC 1 · CODE BREAKER

Code breaker

Work out each sum. Write the answer in the small box, then use the key to find the letter. The letters spell out the answer to the joke.

What did the light bulb say to the switch?

46 − 9	1 + 4	14 + 11		2 + 6	18 + 7	1 + 5	33 − 6

34 − 23	half of 44		9 − 4	48 − 21

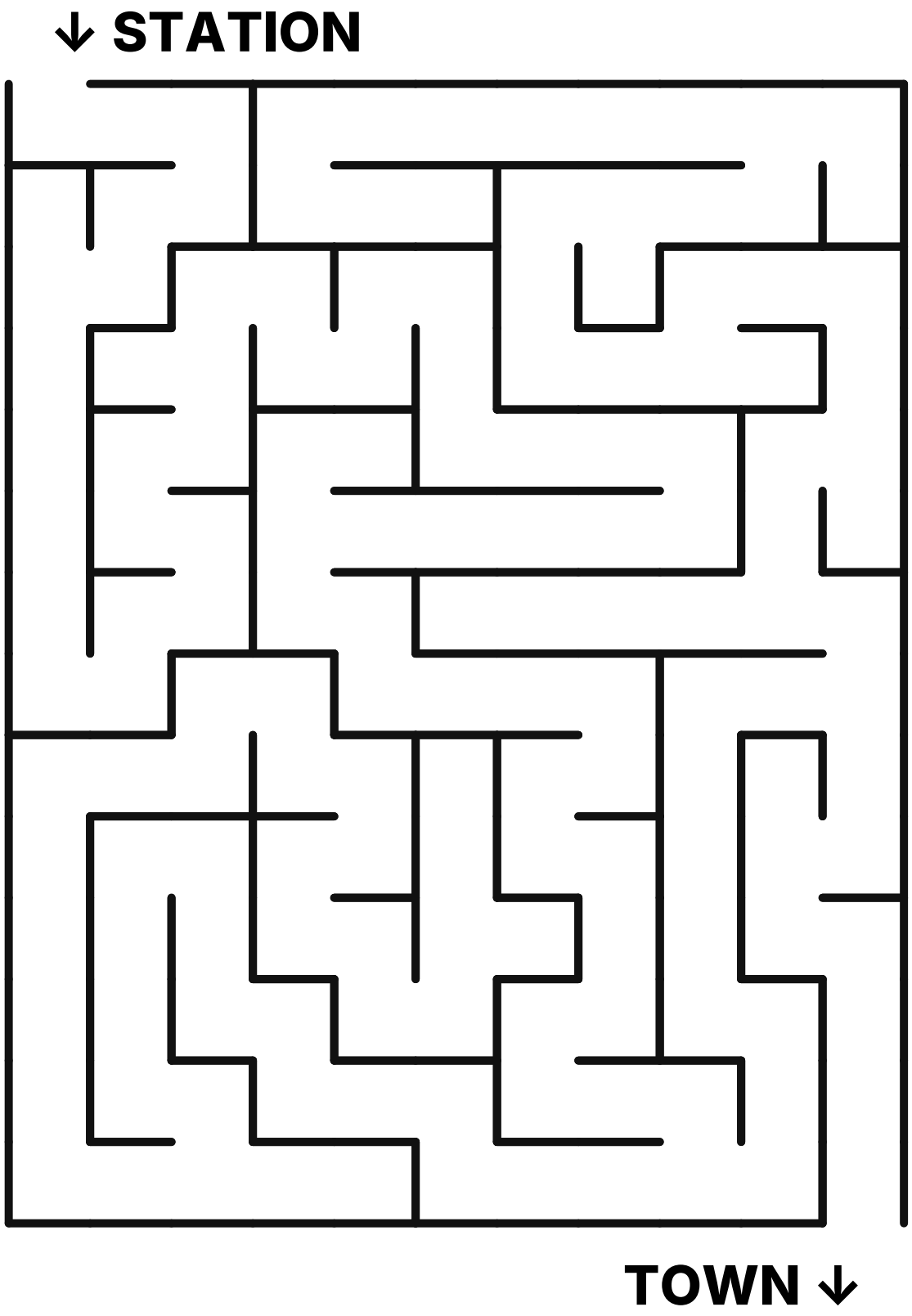
5	6	8	11	22	25	27	37
O	R	T	M	E	U	N	Y

Key: find your answer in the top row, then write the letter underneath it.

UNIT 1 · TOPIC 1 · MAZE

Find the way

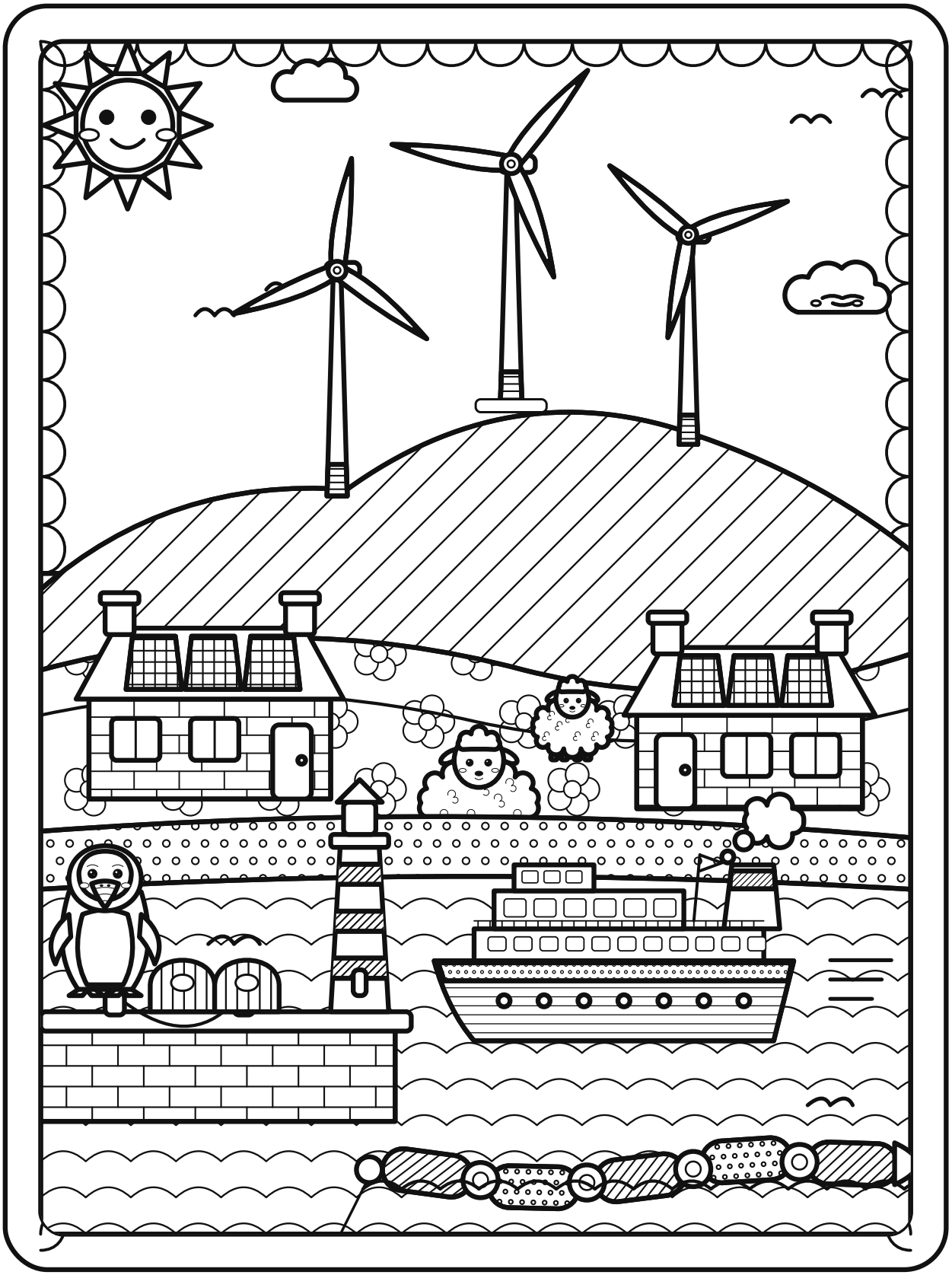
Help the electricity get from the power station to the town.



UNIT 1 · TOPIC 2 · ENERGY FOR THE FUTURE

Colour in: The wind farm

Colour the picture any way you like. Take your time with the patterns, and try to stay inside the lines.



FREE SAMPLE

N4 Physics Activity Book

This sample shows a few pages. The full printed workbook is available from Amazon.

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