

Arts

Math

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1 STEAM

Units are grouped together in pairs. Each pair of units has lessons on the same subject. Every unit focuses on one or more aspects of STEAM (Science, Technology, Engineering, Arts, Math).

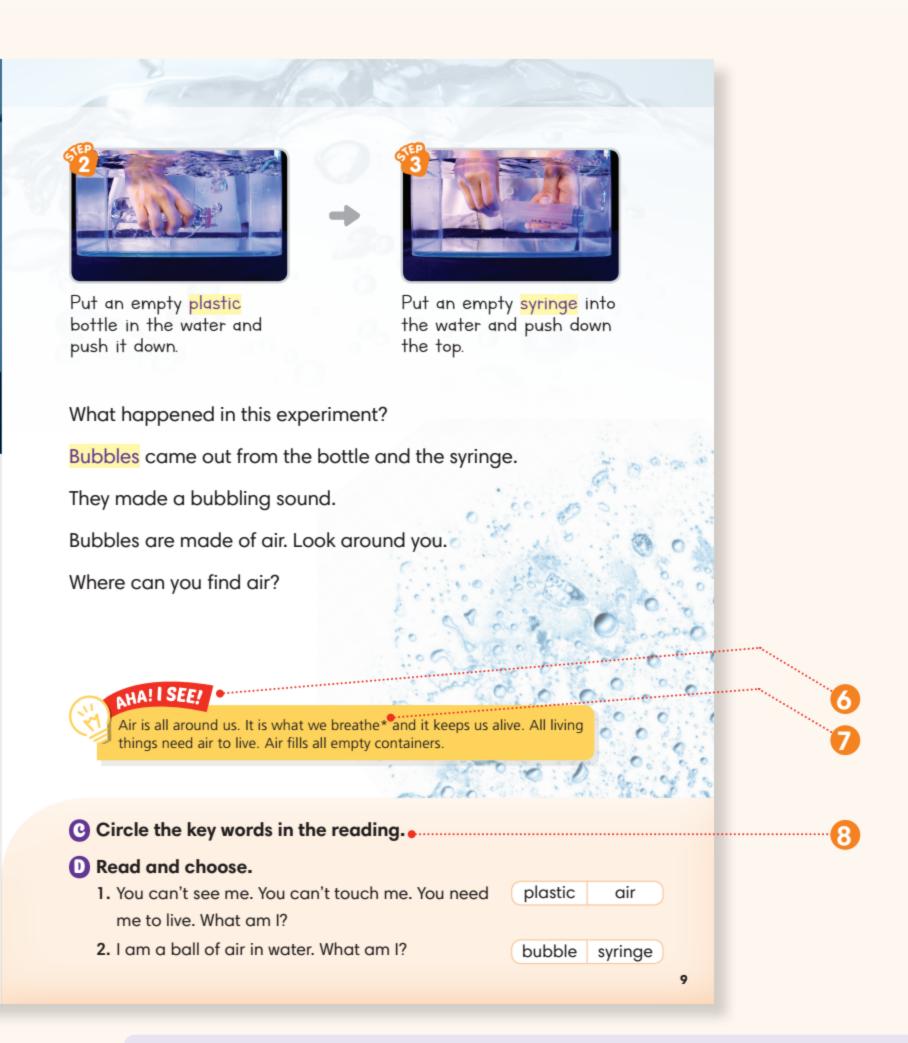
2 I WILL LEARN...

The academic objective of the unit is introduced to get students thinking.

3 QR CODES

Scan the audio QR CODE to listen to the key words and reading passages. In the experiment units, scan the video QR CODE to watch a video of a real experiment.





4 KEY WORDS

Every unit introduces new KEY WORDS that are necessary to understand the unit's topic. All key words are found in the READING and are illustrated with a photograph.

5 READING

Each READING is an introduction to the topic of the unit. The first unit in a pair introduces the subject through an experiment. The experiment is illustrated and easy to follow. The second unit features an engaging short story on the same topic.

6 AHA! I SEE!

This section goes into further detail on the concepts introduced in the READING.

WORDS WITH AN ASTERISK (*)

Difficult words in the unit are marked with an asterisk (*) and are explained in a wordlist at the back of the book.

8 SHORT ACTIVITIES

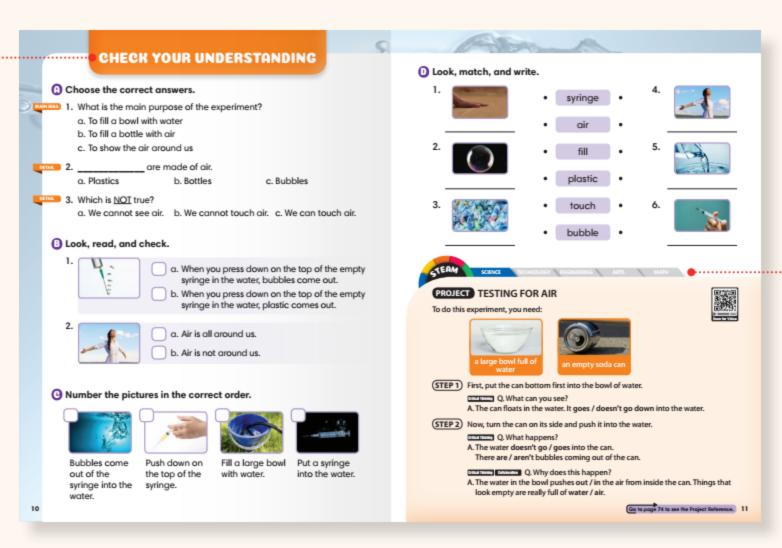
Short activities focus attention on the KEY WORDS and check understanding.

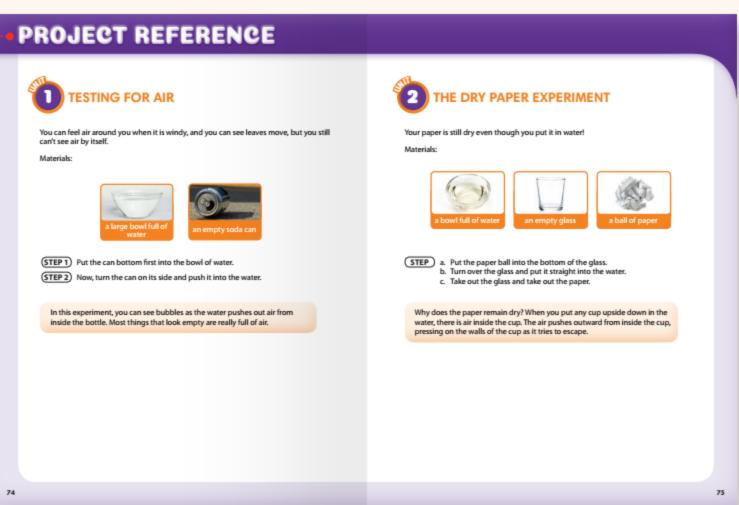
CHECK YOUR UNDERSTANDING

This section features a range of activities to check both reading comprehension and understanding of the unit vocabulary.

STEAM PROJECT

The STEAM PROJECT ends the unit with a fun and interactive project that encourages individual creativity as well as collaboration. Project types include experiments, math problems, and arts & crafts. Experimental projects have a video available via QR code. Further explanation for certain projects can be found in the PROJECT REFERENCE at the end of the book.





PROJECT REFERENCE

PROJECT REFERENCE pages go into further detail of the concepts behind the project.

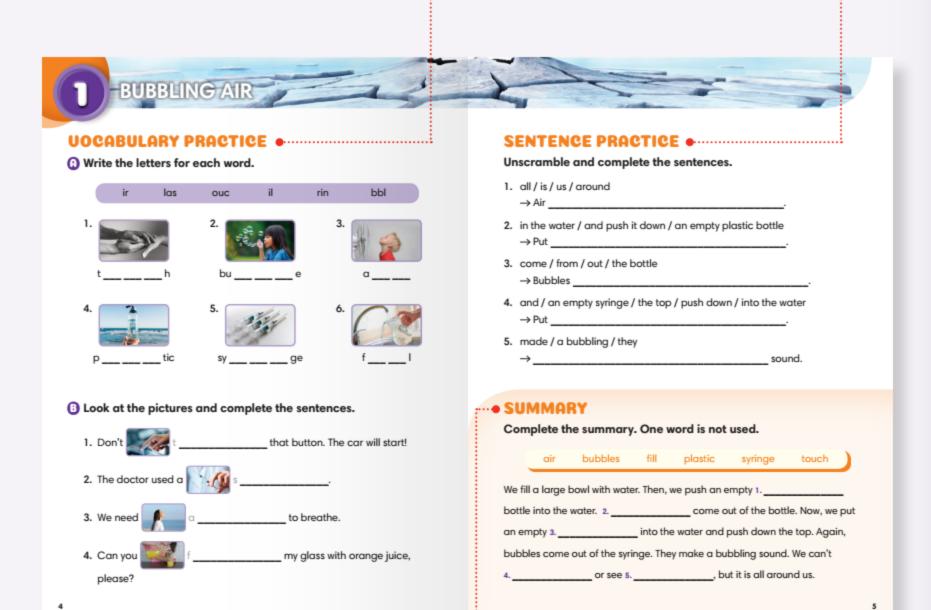


VOCABULARY PRACTICE

This checks students' understanding of the key words introduced in the Student Book unit.

SENTENCE PRACTICE

This is an unscramble activity featuring sentences taken from the unit reading.



SUMMARY

This is a recap of the unit's reading passage. Students are able to check their understanding of the ideas introduced in the unit.

TABLE OF CONTENTS

UNIT / PAGE	STEAM		DETAILS
	S	Title	BUBBLING AIR / WC: 60 🔘
		Academic Objective	Learn about air
Page 8	1	Vocabulary	air, touch, fill, plastic, syringe, bubble
	A M	STEAM Project	Testing For Air 🔘
			21st Century Skills: Critical Thinking, Collaboration
	S	Title	TONY'S BALLOON / WC: 86
2		Academic Objective	Learn about the properties of air
	1	Vocabulary	balloon, untie, try, feel, wind, around
Page 12	A	STEAM Project	The Dry Paper Experiment 🔘
	M		21st Century Skills: Critical Thinking
	S	Title	MAGNETS PUSH AND PULL / WC: 88 🔘
=		Academic Objective	Learn about magnets and their poles
		Vocabulary	pole, north, south, opposite, build, tower
Page 16	A	STEAM Project	Exploring Magnets
Page 10	М		21st Century Skills: Critical Thinking
	S	Title	NEW PENCIL CASE / WC: 80
Λ	<u> </u>	Academic Objective	Learn about the uses of magnets
		Vocabulary	zip, pencil case, drop, shake, close, tightly
- 20	A	STEAM Project	Find the Words
Page 20	М		21st Century Skills: Critical Thinking
	S	Title	GROWING SEEDS / WC: 68 ○
5		Academic Objective	Learn about seeds and how they grow
	Ē	Vocabulary	kidney bean, cotton, place, temperature, bud, soil
	Α	STEAM Project	Life Cycle of a Plant
Page 24	M		21st Century Skills: Critical Thinking, Communication, Creativity
	S	Title	GROWING TOMATOES / WC: 83
	T	Academic Objective	Learn how seeds grow into plants
6	E	Vocabulary	cherry tomato, taste, buy, plant, sunlight, water
	A	STEAM Project	Parts of a Plant
Page 28	M		21st Century Skills: Critical Thinking
	S	Title	HOW ROCKS BECOME SOIL / WC: 51 🔘
	Ш	Academic Objective	Learn how soil is formed
		Vocabulary	mountain, rock, large, sharp, edge, powder
. 22	A	STEAM Project	The Soil Layers
Page 32	M		21st Century Skills: Critical Thinking
	S	Title	THE MAGIC OF NATURE / WC: 84
8	Ш	Academic Objective	Learn more about the characteristics of soil
		Vocabulary	go hiking, hurt, rest, nature, break, piece
Page 36	A	STEAM Project	Soil Formation
Page 30	М		21st Century Skills: Critical Thinking
		A CONTRACTOR OF THE PARTY OF TH	

UNIT / PAGE \S	TEAM		DETAILS
	S	Title	THE SHAKING DRUM / WC: 86 🔘
		Academic Objective	Learn about different kinds of sounds
		Vocabulary	hear, believe, drum, hit, jump, move
	A	STEAM Project	Is the Sound You Hear Big or Small?
Page 40			21st Century Skills: Critical Thinking, Communication
	S	Title	TICKING CLOCK / WC: 88
10	Ť	Academic Objective	Learn more about sound and how to measure it
	E	Vocabulary	living room, clock, tick, laugh, measure, decibel
	A	STEAM Project	How Dangerous Are the Sounds We Hear?
Page 44	M		21st Century Skills: Critical Thinking, Communication
	S	Title	DIFFERENT SHADOWS / WC: 62 🔘
		Academic Objective	Learn about light and shadows
	A M	Vocabulary	shadow, dark, prepare, next to, different, object
- 40		STEAM Project	Let's Make a Sun Clock 🖸
Page 48			21st Century Skills: Critical Thinking, Communication
	S	Title	STOP FOLLOWING ME! / WC: 77
		Academic Objective	Learn more about shadows and light
U		Vocabulary	lake, follow, help, under, lie down, hide
Page 52	A	STEAM Project	Changing Shadow
Page 32	M		21st Century Skills: Critical Thinking
	S	Title	GRAVITY PULLS / WC: 60 ○
		Academic Objective	Learn about gravity
13			
	A	Vocabulary	ground, gravity, bucket, poke, noie, fail
	A	Vocabulary	ground, gravity, bucket, poke, hole, fall How Fast Do They Fall?
Page 56	A M	STEAM Project	How Fast Do They Fall? 21st Century Skills: Critical Thinking
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