

NONFICTION READING

1

FUTURE LITERACY

READING

250

NONFICTION READING

1

FUTURE LITERACY

READING

250

TABLE OF CONTENTS

Scope and Sequence

4

How to Use This Book

6

SOCIAL STUDIES

Helping Hands

- | | | |
|----------|--|----|
| 1 | Robot Helpers | 10 |
| 2 | Confidence Through Volunteering | 16 |
| 3 | A National Hero | 22 |
| 4 | Fast Fashion | 28 |

LITERATURE

Timeless Tales

- | | | |
|----------|------------------------------------|----|
| 5 | How to Be a Writer | 34 |
| 6 | Time Travel | 40 |
| 7 | The Two Faces of Dr. Jekyll | 46 |
| 8 | The Real Robin Hood | 52 |

SCIENCE

Healthy Humans

- | | | |
|----|-------------------------|----|
| 9 | Living Longer | 58 |
| 10 | People with Super Taste | 64 |
| 11 | Children's Heights | 70 |
| 12 | Your Powerful Lungs | 76 |

MATH

Wild Metrics

- | | | |
|----|---------------------------|-----|
| 13 | Big Data and Math | 82 |
| 14 | The Origin of Measurement | 88 |
| 15 | Balance in Nature | 94 |
| 16 | Probability | 100 |

Word List

106

SCOPE AND SEQUENCE

SUBJECT	UNIT	TITLE	VOCABULARY
SOCIAL STUDIES	1	Robot Helpers	provide, interaction, guide, overcome, challenge, speech, especially, keep company
	2	Confidence Through Volunteering	confident, self-esteem, rewarding, challenging, satisfied, extra, crisis, organize
	3	A National Hero	cancer, artificial, patient, research, quit, although, in memory of, national
	4	Fast Fashion	fashion, clothing, trendy, try on, landfill, ethical, sustainable, recycle
LITERATURE	5	How to Be a Writer	blog, freedom, passion, succeed, original, feedback, opportunity, career
	6	Time Travel	science fiction, insist, peaceful, paradise, discover, underground, quite, entertain
	7	The Two Faces of Dr. Jekyll	suddenly, evil, hard-working, laboratory, troublesome, violent, obviously, personality
	8	The Real Robin Hood	resist, lose, woods, robber, match, fall in love, legend, sharing
SCIENCE	9	Living Longer	drive, lifespan, worldwide, advance, increase, rise, close, maximum
	10	People with Super Taste	study, tongue, bump, square, flavor, sensitive, bitter, grapefruit
	11	Children's Heights	birth, growth, slow down, regular, typically, stage, height, contrast
	12	Your Powerful Lungs	lung, heart, circulate, upper, sponge, rest, organ, alive
MATH	13	Big Data and Math	include, gather, statistics, trend, helpful, education, figure out, technique
	14	The Origin of Measurement	unit, originally, define, thumb, confusion, result, equator, accept
	15	Balance in Nature	symmetry, honeycomb, hexagon, waste, store, peacock, attractive, web
	16	Probability	probability, express, die, tie, lightning, population, lottery, drop

- B** Background Knowledge
- W** Writing
- D** Digital Reading


KEY PATTERN	LITERACY UPGRADE
take food orders / have difficulties with	B Robot Dogs
it only takes / just a few ideas	W Preposition: to
develop pain / raise money	D Text Chat
might not / get by in life	B Microplastics: Major Problems
to succeed / dive into	B Fanfiction
one of the earliest / while searching for	W Imperatives
turn it into / both good and evil	D Online Theater Show Review
an enemy of / in contrast	B Myths vs. Legends
over the past century / longer than average	B Ogimi Village
can't stand / on your tongue	W Hyphens
at birth / on average	D Online Article
make room for / not only ... but also	B The Largest Organ
be big business / as a career	B Data Sets
from place to place / make up	W Fractions
over a surface / extend out	D Online Advertisement
a one-in-X chance / be based on	B Girolamo Cardano

HOW TO USE THIS BOOK

STUDENT BOOK

AUDIO QR

A QR code at the beginning of each unit provides links to the audio tracks for the Vocabulary Zone and Reading section.



1 SOCIAL STUDIES

ROBOT HELPERS

WARM UP

In the future, robots could be a part of everyone's daily life. Is this a good thing? Will robots make our lives easier? Why or why not?

Answer the questions.

- Have you seen any robots? Where did you see them?
- How can robots help humans?
- How can robots cause problems?

VOCABULARY ZONE

A Match the meanings with the words and listen.

- in particular; for a particular purpose
- to show or help
- to spend time with
- two or more things affecting each other
- to give or supply something that someone needs
- the act of talking
- to be successful during a hard time
- something difficult

B Match the phrases.

1. Yesterday at the party,	•	• a I went to keep her company.
2. A dog can guide a blind person •	•	• b for someone in a wheelchair.
3. Climbing stairs is a challenge •	•	• c I enjoyed our interactions.
4. My friend was lonely, so •	•	• d across a busy street safely.

C Choose the correct answers.

- The baker will _____ enough cake for 100 people at the party.
☐ a guide ☐ b challenge ☐ c provide ☐ d keep company
- I was _____ happy to spend the day with my favorite aunt.
☐ a overcome ☐ b especially ☐ c challenge ☐ d special
- If we all work together, we can _____ our problems.
☐ a challenge ☐ b guide ☐ c overcome ☐ d keep company
- If my dog had the power of _____, we could tell each other jokes.
☐ a speech ☐ b provide ☐ c guide ☐ d challenge

CHALLENGE Suffix: -ly

The suffix **-ly** changes adjectives into adverbs. If the adjective ends in **-y**, change **-y** to **-i** before adding **-ly**.

a special		a especially
a polite		a politely
a happy		a happily

Choose the correct words.

- You should be (special / especially) careful not to knock over the blocks.
- The host gave a (polite / politely) greeting to the guest.
- The children played (happy / happily) in the park.

WARM UP

Level-appropriate questions help students activate their background knowledge and think about the unit topic.

CHALLENGE

Students can reinforce and expand their vocabulary even further by learning about a prefix or suffix that is featured in the reading passage.

VOCABULARY ZONE


Students learn the unit key words and then perform matching and fill-in-the-blank activities to help strengthen memory retention and ensure they understand not only the words' meanings but also their usage in context.

VIDEO LINK

Videos related to the main passage are available to boost students' understanding. Click the icon in the eBook to view the videos.

KEY PATTERN

Students practice the key patterns from the reading passage with other example sentences.



Listen and read out loud.

Robots are already a part of daily life. Factories use robots to make products. Robot servers take food orders in restaurants. Future robots will do more. Engineers are working on helper robots to use in hospitals and in people's homes.

Some robots can move and talk a little like people. These **provide** fun **interactions**. Robots can teach **valuable** lessons, too. They can **guide** a person's movements to help them **overcome** physical **challenges**. They can help learn important body motions. The robots can help people who have difficulties with social skills and **speech**. They can become a speaking partner for someone who needs one.

12

Older people need special care. Fewer people are having children, and humans are living longer. So the number of elderly people who need help is growing. Robots are **especially** good for the elderly. They can help make food and clean the house. **They** can even **keep** the elderly **company**.

These helper robots are not very common yet. But they will be someday. In the future, these helper robots might make our lives easier. Perhaps when you get older, you could have a helper robot in your house to help you out!

KEY PATTERN Practice the key patterns.

- take food orders**
 - Robot servers **take food orders** in restaurants.
 - Some restaurants use tablets to **take food orders**.
- have difficulties with**
 - The robots can help people who **have difficulties with** social skills and speech.
 - Many students **have difficulties with** learning English.

B Read and answer.

- What places are engineers making robots for?
 - ☐ hospitals
 - ☐ factories
 - ☐ stores
- What does the reading say that robots can help people learn?
 - ☐ languages
 - ☐ art
 - ☐ body motions
- What can robots do for elderly people?

They can make _____ and clean the _____.

C Write your own sentences with the key patterns.

KEY PATTERN 1 _____

KEY PATTERN 2 _____

13

READING A

Students read a level-appropriate passage about a familiar and interesting topic using the key words.

READING B

Students complete a quick comprehension check to confirm their understanding of the passage's details while it is fresh in their minds. This will prepare them for the following comprehension questions.

READING C

Students review the key patterns of the reading and practice writing a sentence with each key pattern.

LITERACY TRAINING

A Read and choose the correct answers.

- [MAIN IDEA]** 1. What is the main message of the reading?
- ☐ Robots can be useful to people. ☐ Robots help people with speech.
☐ Robots are used a lot in factories. ☐ Robots will replace people in their jobs.
- [DETAIL]** 2. According to the reading, robots _____.
- ☐ are too complicated to be used by regular people
☐ lack the social skills required to communicate with people
☐ are going to be used mainly in hospitals in the future
☐ can help care for the increasing number of older people
- [DETAIL]** 3. Which of the following is NOT true according to the reading?
- ☐ Robots work in restaurants. ☐ People can have fun with robots.
☐ Fewer people are having children. ☐ Technology changes slowly.
- [DETAIL]** 4. How are robots currently used in factories?
- ☐ They take food orders. ☐ They make products.
☐ They guide people's movements. ☐ They teach people to communicate.
- [DETAIL]** 5. What is one role of robots mentioned in the reading?
- ☐ playing music ☐ repairing things
☐ teaching body motions ☐ driving cars
- [VOCABULARY]** 6. What does the word **valuable** mean in the reading?
- ☐ meaningful ☐ expensive ☐ affordable ☐ creative
- [VOCABULARY]** 7. What does the word **they** refer to in the reading?
- ☐ children ☐ engineers ☐ elderly people ☐ robots
- [INFERENCE]** 8. What kind of impact will robots most likely have on society in the future?
- ☐ They will improve the lives of people who use them.
☐ They will be taught to do things by the elderly.
☐ They will not be available to most people.
☐ They will only do housework in people's homes.

Bonus Question

Why are people making robots to help the elderly?
 It is because fewer people are having _____ and humans are _____ longer.

14

B Complete the graphic organizer.

Now	1. _____
Problem	2. _____
Possibility	3. _____
Prediction	4. _____

- ☐ People can't do some things on their own.
☐ Robots help people in a lot of different ways.
☐ Robots will probably keep making our lives easier.
☐ Robots can help people with a variety of difficulties, like physical or health challenges.

LITERACY UPGRADE

BACKGROUND KNOWLEDGE

A Read.

Robot Dogs

Today, robots help humans do many things. But have you ever heard of a robot pet? Some companies have developed robot dogs. These dogs are not as soft and cuddly as real pets. But they can behave like dogs. Using artificial intelligence, robot dogs can respond to commands. Some can sit or even shake hands. Most people still prefer to have real animals as pets. However, this could change in the future. Someday, robot dogs could protect people's homes and businesses. They might also make good companions for people who have pet allergies.



B Read the dialog and fill in the blanks.

- Allison** Jim, what's that? Is it a robot?
- Jim** Yes, this is my new [1] _____ dog.
- Allison** It's so cute! What can it do?
- Jim** It can [2] _____ and even [3] _____ hands.
- Allison** You have pet allergies, right?
- Jim** Yes, robot dogs are good [4] _____ for people who have allergies.

15

LITERACY TRAINING

Students complete a variety of reading comprehension questions and graphic organizers. These exercises engage students by going beyond the main idea and asking about specific details of the reading. This helps form a solid foundation in reading literacy.

LITERACY UPGRADE

Students are introduced to a sequential cycle of interconnected modules: 2 Background Knowledge, 1 Writing, and 1 Digital Reading for each subject. Innovative videos in the Digital Reading section extend the learning experience beyond the traditional page.

WORKBOOK

VOCABULARY CHECK

Students review the key words and practice spelling them through puzzles.

COMPREHENSION CHECK

Students recall key information from the reading and practice what they have learned.

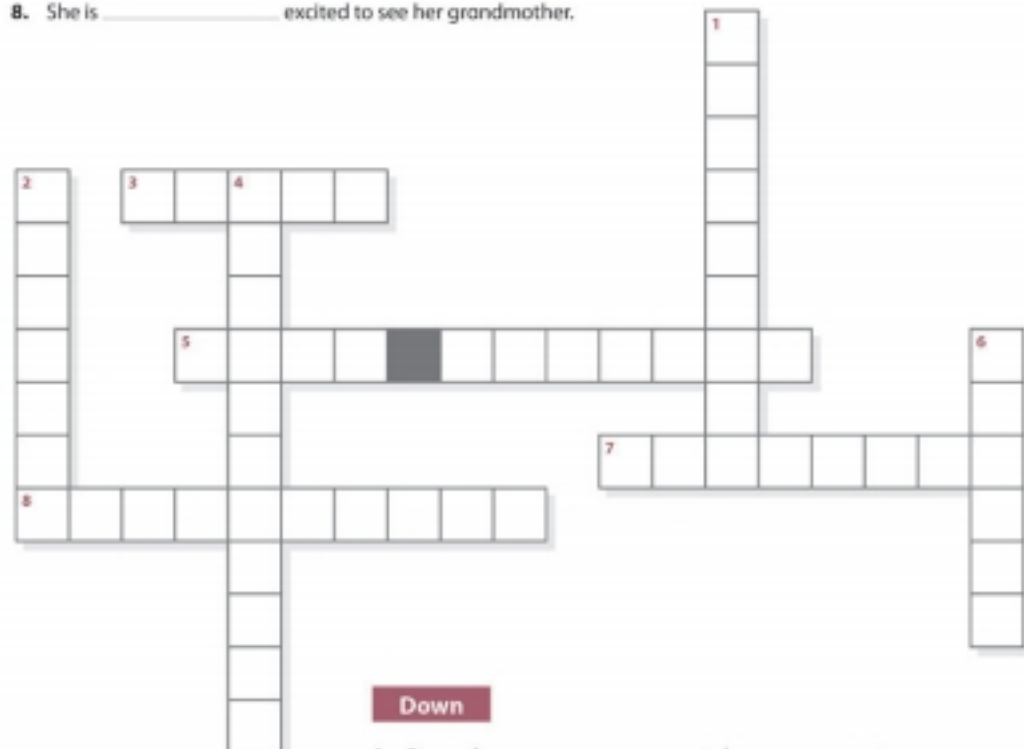
1 ROBOT HELPERS

VOCABULARY CHECK

Fill in the blanks. Then, complete the puzzle.

Across

3. Rachel will _____ the new students to their classes.
5. When I feel lonely, I want someone to _____ me _____.
7. It is easier to _____ difficulties with the help of friends.
8. She is _____ excited to see her grandmother.



Down

1. It may be a _____ to learn a new sport.
2. The police _____ protection for their communities.
4. This video shows a cute _____ between a baby and a kitten.
6. He is not comfortable talking in front of groups because of his _____ problem.

4

SOCIAL STUDIES

COMPREHENSION CHECK

A Choose the best answers.

1. How can robots help people who have physical challenges?
 - ☐ They provide fun interactions.
 - ☐ They can help support body movements.
 - ☐ They can teach proper interactions.
 - ☐ They can monitor health.
2. According to the reading, it will be common for the robots to take care of the elderly in the future because _____
 - ☐ young people will do different jobs
 - ☐ old people need robots for company
 - ☐ there will be fewer younger people to take care of them
 - ☐ robots are better workers than people

B Choose the correct prompt(s) and write full sentences to answer the questions. Not all prompts may be used.

make our lives easier someone to take care of them difficulties with social
take food orders teach valuable lessons drive trucks or

1. What can robot servers in restaurants do?
2. What might people need as they get older?
3. How will helper robots affect our lives when they become more common?

SUMMARY

Complete the summary. Not all the words will be used.

advances challenges especially guide
overcome provide speech variety

Robots are already a part of daily life, and future robots will do even more. Engineers are working on a(n) [1] _____ of helper robots for people to use. Some robots can talk a little like people. They [2] _____ fun interactions. Robots can also [3] _____ a person's movements to help them [4] _____ physical [5] _____. Robots can help people who have difficulties with social and [6] _____ skills. Robots can help them practice. Robots are [7] _____ helpful with the elderly. They can help elderly people get out of bed, make food, and clean the house.

5

SUMMARY

Students check their understanding by completing a summary of the reading passage.



AUDIO

ROBOT HELPERS



In the future, robots could be a part of everyone's daily life. Is this a good thing? Will robots make our lives easier? Why or why not?

Answer the questions.

- ▶ Have you seen any robots? Where did you see them?
- ▶ How can robots help humans?
- ▶ How can robots cause problems?

VOCABULARY ZONE

A Match the meanings with the words and listen. TRACK 02



v provide



n interaction



v guide



v overcome



n challenge



n speech



adv especially



phr v keep company

1. in particular; for a particular purpose
2. to show or help
3. to spend time with
4. two or more things affecting each other

5. to give or supply something that someone needs
6. the act of talking
7. to be successful during a hard time
8. something difficult

B Match the phrases.

- | | | |
|-----------------------------------|---|----------------------------------|
| 1. Yesterday at the party, | • | • a I went to keep her company. |
| 2. A dog can guide a blind person | • | • b for someone in a wheelchair. |
| 3. Climbing stairs is a challenge | • | • c I enjoyed our interactions. |
| 4. My friend was lonely, so | • | • d across a busy street safely. |

C Choose the correct answers.

- The baker will _____ enough cake for 100 people at the party.
a guide b challenge c provide d keep company
- I was _____ happy to spend the day with my favorite aunt.
a overcome b especially c challenge d special
- If we all work together, we can _____ our problems.
a challenge b guide c overcome d keep company
- If my dog had the power of _____, we could tell each other jokes.
a speech b provide c guide d challenge

CHALLENGE Suffix: -ly

The suffix **-ly** changes adjectives into adverbs. If the adjective ends in -y, change -y to -i before adding -ly.

adj special



adv especially

adj polite



adv politely

adj happy



adv happily

Choose the correct words.

- You should be (special / especially) careful not to knock over the blocks.
- The host gave a (polite / politely) greeting to the guest.
- The children played (happy / happily) in the park.



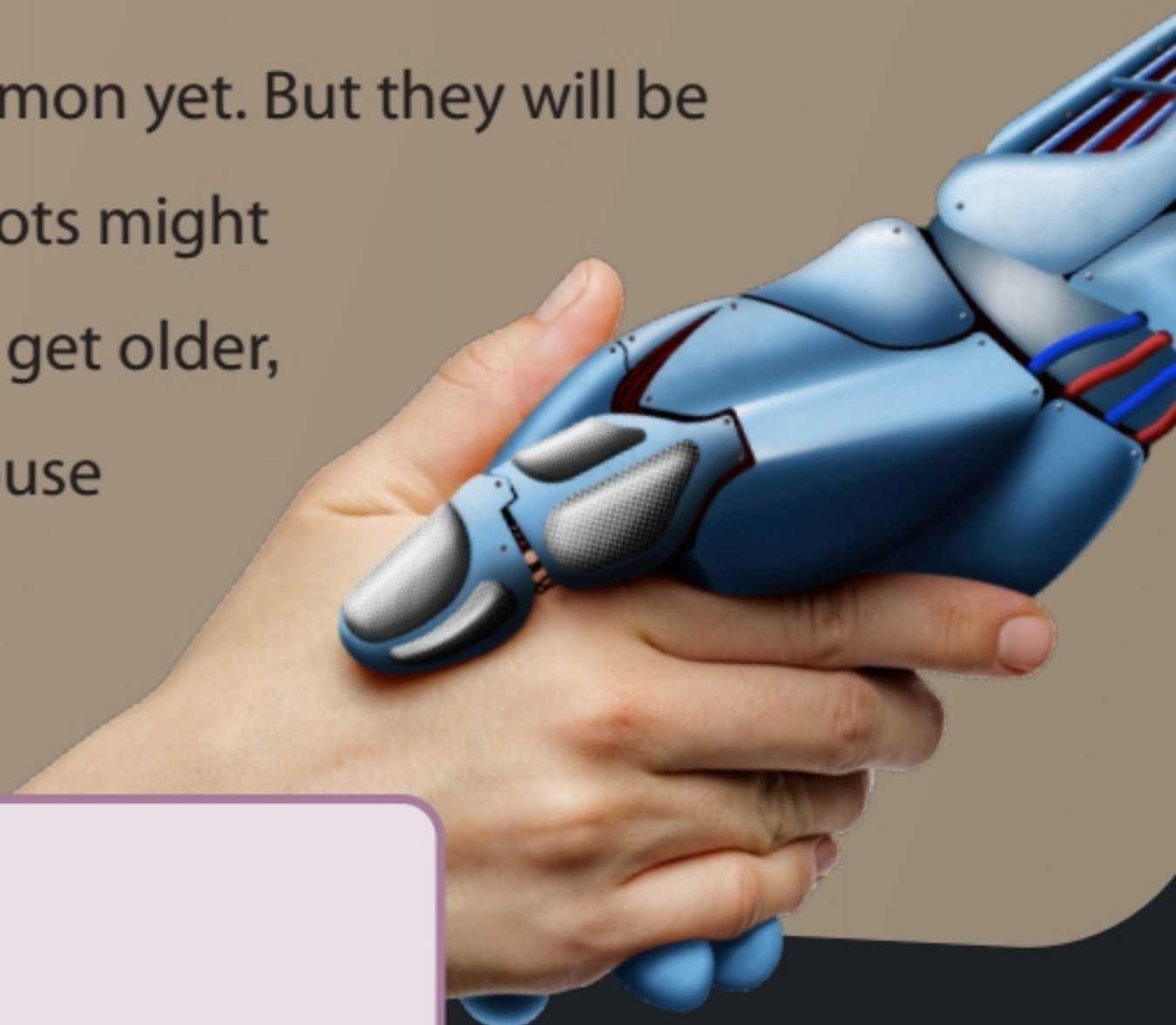
Listen and read out loud. TRACK 03

Robots are already a part of daily life. Factories use robots to make products. Robot servers take food orders in restaurants. Future robots will do more. Engineers are working on helper robots to use in hospitals and in people's homes.

Some robots can move and talk a little like people. These **provide** fun **interactions**. Robots can teach **valuable** lessons, too. They can **guide** a person's movements to help them **overcome** physical **challenges**. They can help learn important body motions. The robots can help people who have difficulties with social skills and **speech**. They can become a speaking partner for someone who needs one.

Older people need special care. Fewer people are having children, and humans are living longer. So the number of elderly people who need help is growing. Robots are **especially** good for the elderly. They can help make food and clean the house. **They** can even **keep** the elderly **company**.

These helper robots are not very common yet. But they will be someday. In the future, these helper robots might make our lives easier. Perhaps when you get older, you could have a helper robot in your house to help you out!



KEY PATTERN

Practice the key patterns.

take food orders

- Robot servers **take food orders** in restaurants.
- Some restaurants use tablets to **take food orders**.

have difficulties with

- The robots can help people who **have difficulties with** social skills and speech.
- Many students **have difficulties with** learning English.

B Read and answer.

1. What places are engineers making robots for?

- ☐ a hospitals ☐ b factories ☐ c stores

2. What does the reading say that robots can help people learn?

- ☐ a languages ☐ b art ☐ c body motions

3. What can robots do for elderly people?

They can make _____ and clean the _____.

C Write your own sentences with the key patterns.

[KEY PATTERN 1] _____

[KEY PATTERN 2] _____