NONFICTION READING

NONFICTION



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SCOPE AND SEQUENCE

| SUBJECT | UNIT | TITLE | VOCABULARY | | |
|-------------|------|--------------------------------|---|--|--|
| | 1 | Robot Firefighters | fire, brave, battle, fit, joystick, meter | | |
| SCIENCE | 2 | Cleaning Up Space Garbage | waste, ton, spaceship, clean up, solution, powerful | | |
| NCE | 3 | Cars That Drive Themselves | type, vehicle, prevent, distance, crash, trust | | |
| | 4 | Intelligent Machines | enemy, solve, intelligent, chess, beat, champion | | |
| LAN | 5 | Baseball Signs | baseball, notice, variety, glove, pitcher, communicate | | |
| IGUAGE ARTS | 6 | Hieroglyphics | ancient, complicated, discover, expert, dictionary, translate | | |
| GE A | 7 | How Animals Communicate | unique, chemical, path, vibrate, smack, produce | | |
| RTS | 8 | Barcodes and QR Codes | airline, luggage, ticket, stripe, scan, item | | |
| | 9 | The Theremin | electronic, wooden, antenna, wave, current, spooky | | |
| MUSIC | 10 | Beat Machines | recording, cymbal, drummer, mistake, always, perfect | | |
| SIC | 11 | Auto-Tune | attention, tune, software, natural, nearly, tone | | |
| | 12 | The Changing Shape of Music | concert hall, disc, heavy, cassette, pocket, stream | | |
| | 13 | Weighing a Planet | weight, planet, moon, orbit, gravity, pull | | |
| MATH | 14 | The First Scales | trade, value, worth, merchant, weigh, equal | | |
| Ŧ | 15 | Catching Rain | flood, wipe out, speed, drop, times, defend | | |
| | 16 | Weather Models | blizzard, predict, information, moisture, model, forecast | | |

| V Vocabulary |
|-------------------------------|
| W Writing |
| B Background Knowledge |
| D Digital Reading |

| KEY PATTERN | LITERACY UPGRADE |
|---|--|
| | |
| In the future, we'll have robots to | protect us. Graphic Organizer, Unlocking the Secret Message |
| It is called space debris. | It's time to <u>clean it up</u> . / Then they can <u>bring it</u> <u>back</u> to Earth. |
| Companies are making a new type | e of car. B AI |
| The first intelligent robot was buil | It in the D Conversation with a Chatbot |
| The pitcher and the other players apart. | stand far |
| This stone had the same text writt hieroglyphics and Greek. | Most languages <u>are written</u> in one direction. |
| Human language seems unique . | B Sign Language |
| A barcode looks like black stripes. | D Website Instructions |
| The way that you play the therem strange. | in is also Graphic Organizer, Definitions |
| They never get tired . | W Drum machines are <u>better</u> than human drummers in some ways. |
| But fixing it used to take a long ti | me. B Types of Music |
| But these machines were too heav around easily. | D App Review |
| They need to know the distance b planet and the moon. | etween the Filling in the Blanks |
| For example, one cow was worth to goats. | three Stones were added <u>until</u> the two plates were equal. |
| Scientists can tell how much rain is hour. | B Drought |
| They keep an eye on how the air r | moves. D Weather Forecast Script |

HOW TO USE THIS BOOK

STUDENT BOOK

VOCABULARY PREVIEW

Every four units, a list of key words is given along with a QR code to practice the words in the exciting Word Kingdom game.



ACADEMIC OBJECTIVES

This section states what students will learn in the four thematically integrated units.

READ AND THINK

These preview questions help draw the students' focus to the subject of the units.



AUDIO QR

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



WARM UP

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

VOCABULARY ZONE

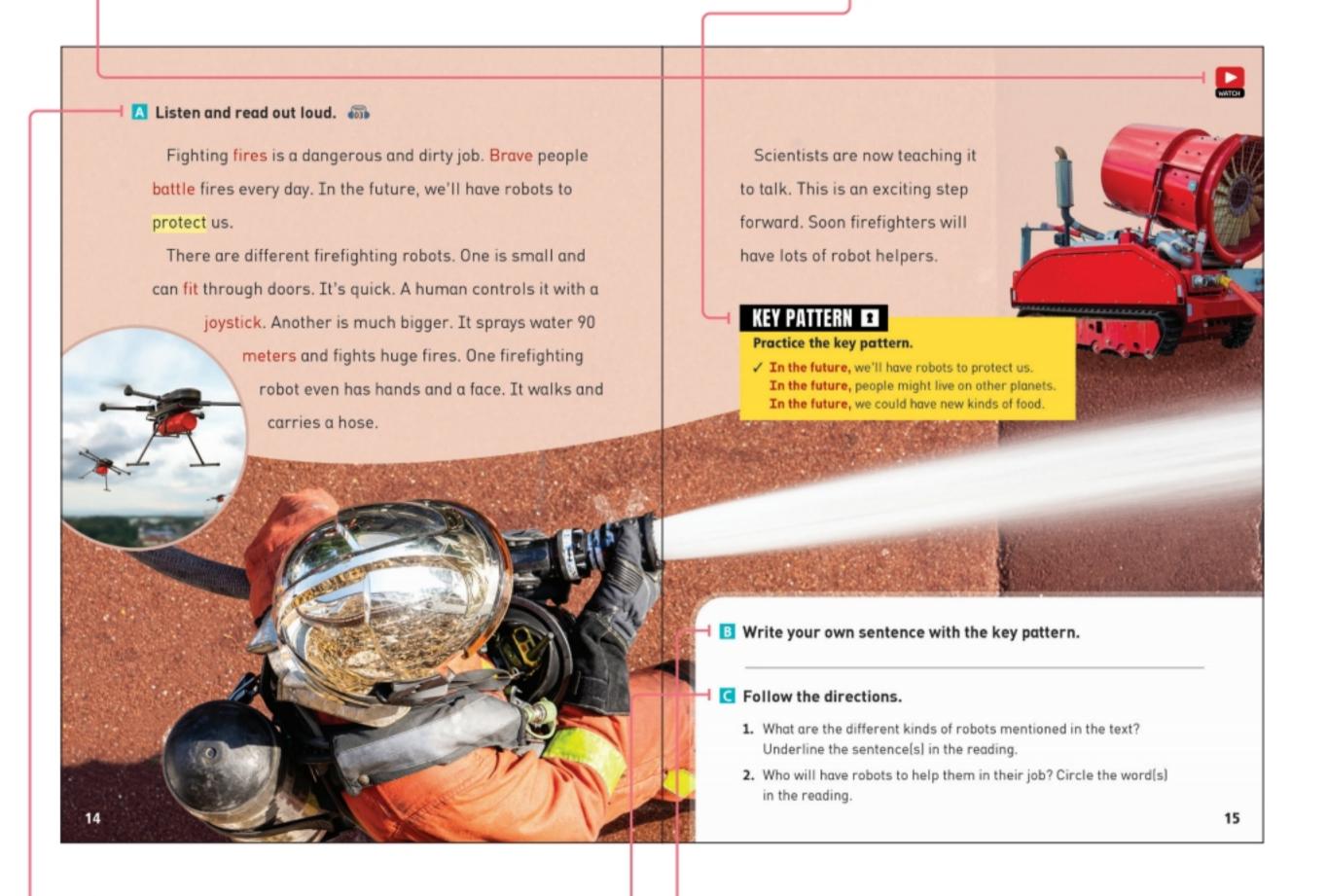
Students learn the unit key words and then perform matching and fill-in-the-blank activities to help strengthen memory retention and ensure they understand not only the words' meanings but also their usage in context.

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 Pattern from the reading passage with other example sentences.



READING A

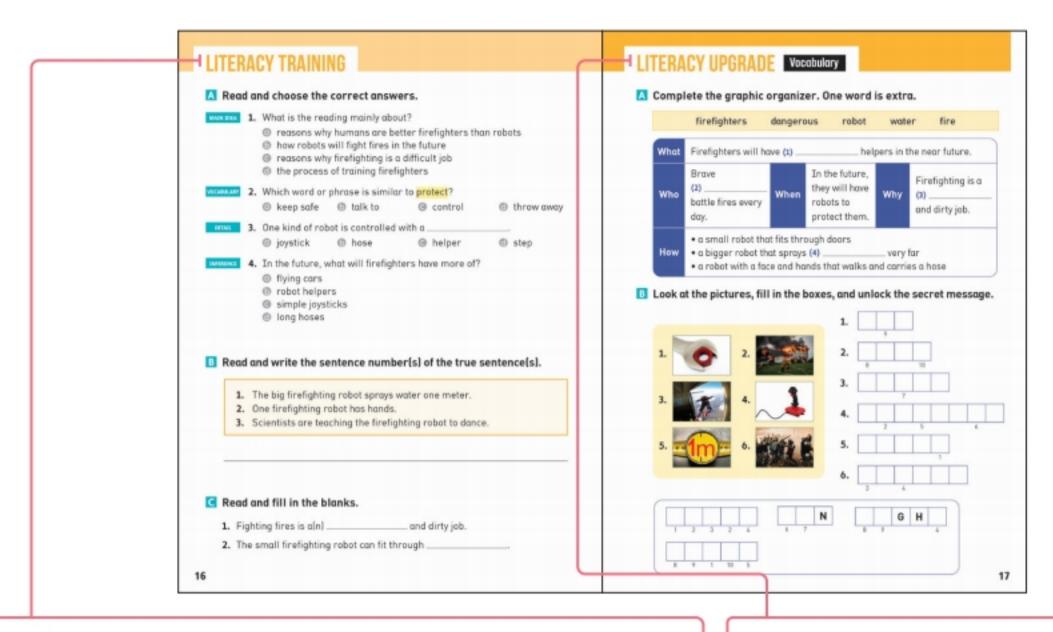
Students read a level-appropriate passage about a familiar and interesting topic using the key words.

READING B

Students review the Key Pattern of the reading and practice writing a sentence with the Key Pattern.

READING C

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.



LITERACY TRAINING

Students complete a variety of reading comprehension questions and exercises. 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:
Vocabulary, Writing, Background
Knowledge, and Digital Reading.
Innovative videos in the Digital Reading section extend the learning experience beyond the traditional page.

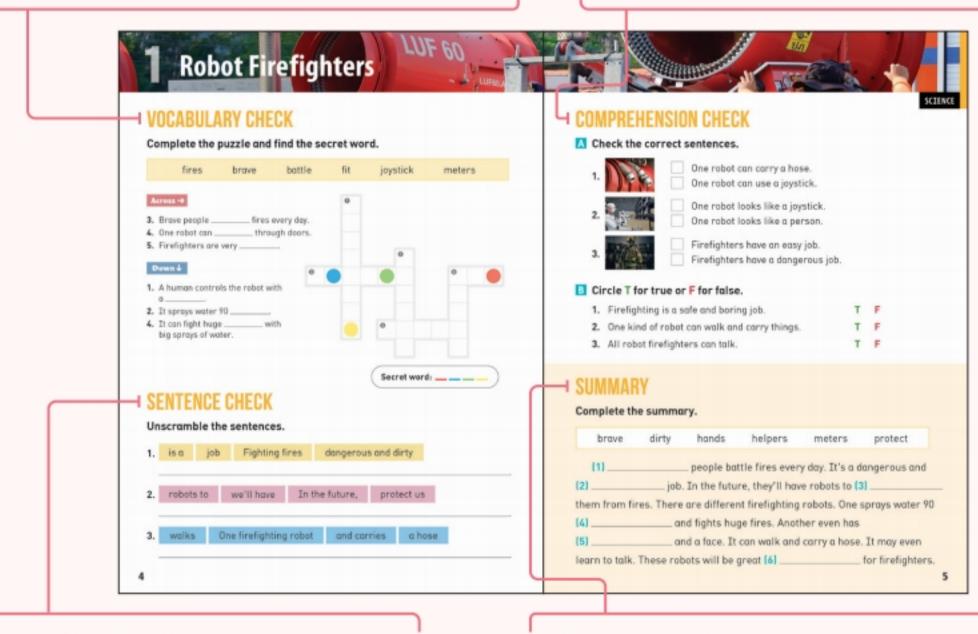
WORKBOOK

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.



SENTENCE CHECK

Students practice writing sentences by doing an unscrambling activity.

SUMMARY

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

The Future Is Robotic

Academic Objectives

- Make predictions about the roles robots and technology will take in our lives.
- Recognize the possible pros and cons of technological advances.

Read and Think

- What do we use robots for now?
- What jobs do you think robots will do in the future?





VOCABULARY ZONE Write the correct words

Mrite the correct words and listen. 📆

| | fire | brave | battle | fit | joystick | meter |
|----|------|-------|--------|-----|----------|--|
| 1. | | | 2. | | 3. | Me Management of the second of |
| 4. | | | 5. | | 6. | |

- **B** Match the words to the meanings.
- **1.** fit
- .

a basic unit of length equal to one hundred centimeters

2. joystick

the control stick for an airplane, computer, or game

3. meter

- to be the right shape and size
- Fill in the blanks with the words from the box.

| | brave | battle | fire | |
|----|--------------------|-------------------------|-----------------|-----------|
| 1. | She was | during the thun | derstorm and di | dn't cry. |
| 2. | The two teams will | for th | ne trophy. | |
| 3. | The | _ burned brightly in th | ne fireplace. | |

A Listen and read out loud.

Fighting fires is a dangerous and dirty job. Brave people battle fires every day. In the future, we'll have robots to protect us.

There are different firefighting robots. One is small and can fit through doors. It's quick. A human controls it with a

joystick. Another is much bigger. It sprays water 90 meters and fights huge fires. One firefighting carries a hose.





Scientists are now teaching it to talk. This is an exciting step forward. Soon firefighters will have lots of robot helpers.



Practice the key pattern.

✓ In the future, we'll have robots to protect us.
In the future, people might live on other planets.
In the future, we could have new kinds of food.



Follow the directions.

- What are the different kinds of robots mentioned in the text?
 Underline the sentence(s) in the reading.
- Who will have robots to help them in their job? Circle the word(s) in the reading.