

NONFICTION READING

2

FUTURE LITERACY

READING

2000

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2

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Word List

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SCOPE AND SEQUENCE

SUBJECT	UNIT	TITLE	VOCABULARY
SCIENCE	1	Artificial Limbs	limb, offer, convenience, bend, respond, rotating, extend, stairs
	2	Winners Wear Red	uniform, simply, competition, outcome, opponent, automatically, influence, victory
	3	Noise Pollution	silent, fridge, realize, effect, health, horn, construction, serious
	4	Understanding the Heart	vital, function, chamber, empty, pump, vessel, vitamin, wrap
LITERATURE	5	Hypertext Literature	device, interact, hyperlink, participate, format, central, storyline, series
	6	Types of Writing	poetry, emotion, rhyme, plot, sequence, event, newspaper, fact
	7	The Power of Poetry	poem, point of view, proverb, consider, reflect, lazy, appreciate, broaden
	8	A Positive Thinker: Anne Shirley	orphan, disappointed, arrive, instead, positive, attitude, firmly, decision
ECONOMICS	9	Digital Money	cash, check, card, method, recently, increasingly, payment, emerge
	10	The History of Money	throughout, evolve, exchange, service, possess, commodity, introduce, stamp
	11	The Stock Market	stock, own, cooperate, profit, investor, steady, decrease, merchandise
	12	Credit Cards	borrow, due, interest, fundamental, bill, purchase, password, responsible
MATH	13	The Math of Faces	facial, feature, recognition, geometry, width, individual, identify, crowd
	14	Cooking with Math	practical, aid, particularly, fraction, vanilla, double, equal, calculation
	15	Measurement Systems	widely, currently, mile, pound, agency, Mars, cooperation, fail
	16	Measuring Big Animals in the Wild	massive, manual, measuring tape, scale, approximate, proportion, size, estimate

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

KEY PATTERN	LITERACY UPGRADE
over the years / such as	B Not Just for Humans
more likely to / in other words	W Quantitative Superlatives: <i>some of the -est</i>
add to the problem / the easiest thing	D Online Chat
away from / back to	B Precious Pressure
go different ways / a mix of	B CYOA Books
come together / ranging from ... to	W Quotations
under the ground / in their daily lives	D Online Course Review
in any situation / make up your mind	B The Power of Positive Thinking
carry around / be sure that	B New Money
easier and easier / tend to last	W Approximation: <i>around</i>
at any time / the best time to	D Email
be smart with / type in	B Beware the Rate
without really thinking / in a crowd	B People's Prints
do you believe / suppose you want to	W Hypothetical: <i>suppose</i>
cause trouble / as you might have guessed	D Compass Encyclopedia
find creative ways to / as many ... as they can	B Big Bears

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.

SCIENCE 1

ARTIFICIAL LIMBS

WARM UP








Some people only have one arm or leg. Often, they also use a special arm or leg made of plastic or metal so they can do most things that people with natural arms and legs do.

Answer the questions.





- How would your life be different if you only had one arm or leg?
- Which do you think would be more difficult: having only one real leg or only one real arm? Why?

VOCABULARY ZONE

A Write the correct words. Then, listen and number.

limb	respond	offer	rotating	convenience	extend	bend	stairs
							
v. e	v. f	n. s	adj. r	v. a	v. b	n. l	n. c



B Match the pictures with the correct words and meanings.

1. 	• respond •	• a series of steps that go from one level or floor to another
2. 	• rotating •	• to do or say something as a reaction to something else that has happened or been done
3. 	• stairs •	• an arm or leg
4. 	• limb •	• moving around a point in the center

C Choose the correct words.

- Since she hurt her arm, she cannot fully (extend / offer / rotating) it.
- You must (limb / offer / bend) your knees when you do squats.
- I (bend / offered / rotated) to take her to the bus stop.
- We prefer the (offered / convenience / extend) of instant noodles cooked in the microwave.

CHALLENGE Part of Speech

	
offer to provide or supply something We offered to pay for the broken window.	offer a price that a buyer says to a seller Anthony accepted the man's offer .

Choose the correct part of speech for the word "offer."

- Her offer for the house was the highest. n. v
- The store will offer a big discount this weekend. n. v

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 multiple choice activities to help strengthen memory retention and ensure they understand not only the words' meanings but also their usage in context.

CHALLENGE

Students can reinforce and expand their vocabulary even further by learning how a vocabulary word can be used as different parts of speech.

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.



A Listen and read out loud.

Artificial **limbs** are fake arms and legs. Humans and machines make artificial limbs to replace missing limbs. Over the years, the design and **performance** of artificial limbs have improved a lot.

In the past, artificial limbs were heavy and ugly. Back then, artificial limbs **offered** very little **convenience** for those in need of them. Artificial hands were metal hooks. Artificial legs were large pegs made of wood. They didn't **bend** or move easily. They were uncomfortable and difficult to use.

Compared to these, artificial limbs today are more like natural limbs. They are light and have moving parts. Some electronic artificial hands **respond** to movements in the muscles. The fingers can open and close. Artificial legs have **rotating** knees that bend and **extend**. They allow users more exact movements, such as climbing **stairs** and riding bikes.

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KEY PATTERN Practice the key patterns.

over the years

- **Over the years**, the design and performance of artificial limbs have improved a lot.
- Society has changed in many ways **over the years**.

such as

- They allow users more exact movements, **such as** climbing stairs and riding bikes.
- Riley enjoys outdoor activities, **such as** rock climbing and snowboarding.

These days, scientists are inventing artificial limbs that are controlled by thoughts. They are making computer chips that work with the human brain. These chips allow users to use **their** brains to move their artificial limbs. They also allow users to feel objects through their artificial limbs. What great improvement will come next?

B Read and answer.

- Artificial limbs are used to replace missing _____.
☐ a eyes ☐ b muscles ☐ c arms and legs
- According to the reading, how have artificial limbs changed?
☐ a They are quicker to make. ☐ b They are cheaper to buy.
☐ c They have improved in design.
- What are artificial limbs like today?
 They are more like _____ limbs and have _____ parts.

C Write your own sentences with the key patterns.

[KEY PATTERN 1] _____
 [KEY PATTERN 2] _____

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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.

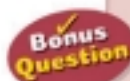
READING C

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.

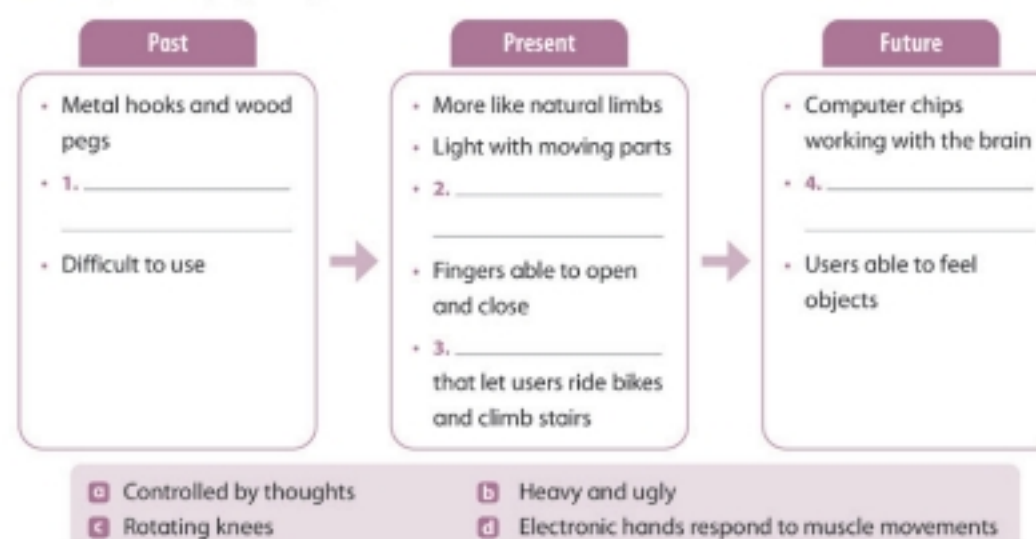
- MAIN IDEA** 1. The reading is mainly about how artificial limbs _____.
- DETAIL** 2. What is true about artificial limbs in the past?
- DETAIL** 3. Which is true according to the reading?
- DETAIL** 4. What will the computer chips mentioned in the reading allow people to do?
- DETAIL** 5. What is NOT true according to the reading?
- VOCABULARY** 6. What does the word **their** refer to in the reading?
- VOCABULARY** 7. What does the word **performance** mean in the reading?
- INFERENCE** 8. How are new artificial limbs helpful to people who need them?



What were some materials used for artificial limbs in the past?
Hooks were made of _____ and artificial legs were made from _____.

14

B Complete the graphic organizer.



LITERACY UPGRADE

BACKGROUND KNOWLEDGE

A Read.



Not Just for Humans

Animal doctors have fitted artificial body parts to all kinds of animals. An elephant has a leg made of plastic and steel. It gets a new, stronger leg to support it as it grows. A bald eagle has an artificial beak made with a 3-D printer. Sea turtles have artificial flippers, and land turtles have artificial feet. Injured dolphins have learned to swim with artificial tails.

B Match each animal to the artificial limb it has in the reading.

- | | | |
|---------------|---|----------------------------------|
| 1. eagle | • | <input type="checkbox"/> leg |
| 2. elephant | • | <input type="checkbox"/> flipper |
| 3. sea turtle | • | <input type="checkbox"/> beak |

C Fill in the blanks using the words from the box. There are two extra words.

printer feet 3-D tail artificial beak

1. How can a bird's beak be made?
With a _____
2. How can dolphins that were injured swim again?
With an _____

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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.

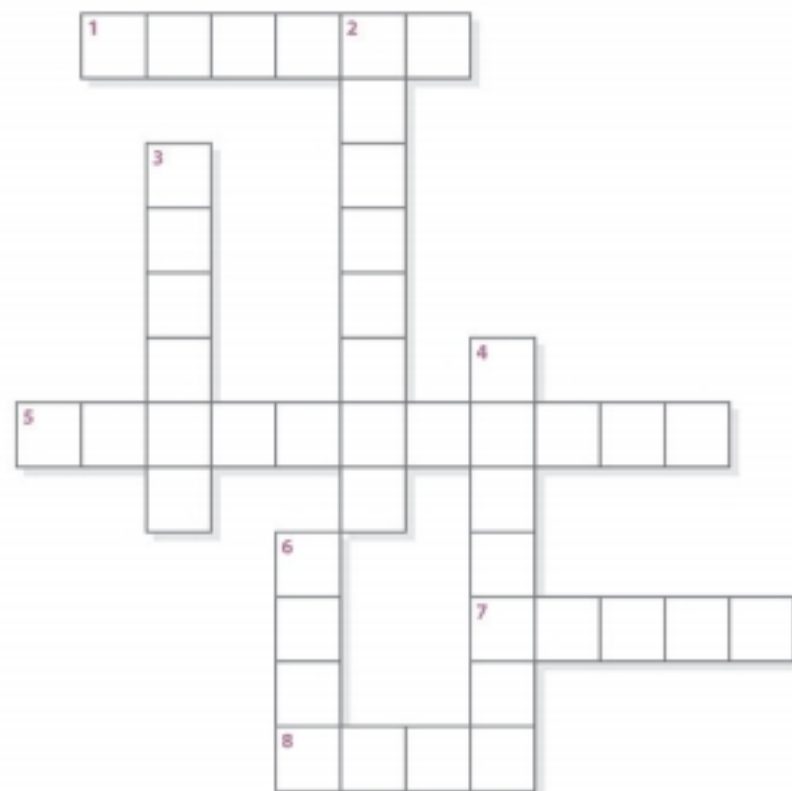
COMPREHENSION CHECK

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

1 ARTIFICIAL LIMBS

VOCABULARY CHECK

Complete the puzzle.



Across

1. a series of steps that go from one level or floor to another
5. something that makes life easier or more comfortable
7. to provide or supply something
8. to curve or flex something

Down

2. moving around a point in the center
3. to make longer
4. to do or say something as a reaction to something else that has happened or been done
6. an arm or leg

4

COMPREHENSION CHECK

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

that bend and extend	computer chips into them
made of wood were used	respond to movements
allow users to do those things	metal hooks and pegs

1. What things were used as artificial limbs in the past?
In the past, _____
2. What can electronic hands do today?
Today, they can _____
3. What allows users to climb stairs and ride bikes?
Rotating knees _____
4. What do scientists want to put into people's brains to help them use artificial limbs?
They want to put _____

SUMMARY

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

artificial	extend	fake	light
replace	respond	rotating	stairs

Humans and machines make [1] _____ limbs to [2] _____ missing limbs. Artificial limbs are [3] _____ arms and legs. In the past, artificial limbs were heavy and difficult to use. Today, artificial limbs are more like natural limbs. They are [4] _____ and have moving parts. Some electronic artificial hands [5] _____ to movements in the muscles. Artificial legs have [6] _____ knees that bend and [7] _____. In the future, thoughts will control artificial limbs. Scientists are already working on computer chips that will allow users to use their brains to move their artificial limbs.

5

SUMMARY

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



AUDIO

ARTIFICIAL LIMBS

WARM UP ↗

Some people only have one arm or leg. Often, they also use a special arm or leg made of plastic or metal so they can do most things that people with natural arms and legs do.

Answer the questions.

- How would your life be different if you only had one arm or leg?
- Which do you think would be more difficult: having only one real leg or only one real arm? Why?

VOCABULARY ZONE

A Write the correct words. Then, listen and number. TRACK 02

limb
respond

offer
rotating

convenience
extend

bend
stairs



v e _____



v r _____



n s _____



adj r _____



v o _____



v b _____



n l _____



n c _____

B Match the pictures with the correct words and meanings.



• respond •

• a series of steps that go from one level or floor to another



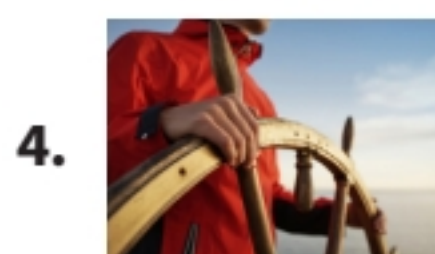
• rotating •

• to do or say something as a reaction to something else that has happened or been done



• stairs •

• an arm or leg



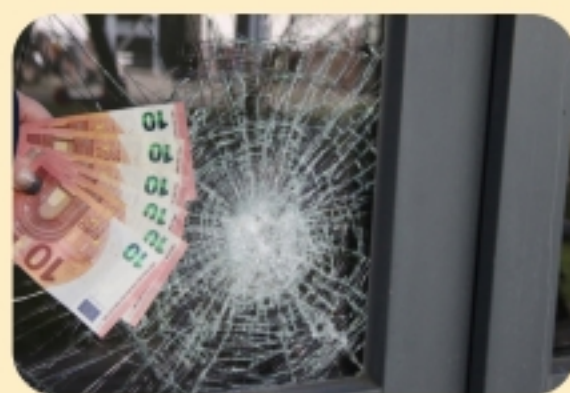
• limb •

• moving around a point in the center

C Choose the correct words.

1. Since she hurt her arm, she cannot fully (extend / offer / rotating) it.
2. You must (limb / offer / bend) your knees when you do squats.
3. I (bend / offered / rotated) to take her to the bus stop.
4. We prefer the (offered / convenience / extend) of instant noodles cooked in the microwave.

CHALLENGE Part of Speech



v offer

to provide or supply something

We **offered** to pay for the broken window.



n offer

a price that a buyer says to a seller

Anthony accepted the man's **offer**.

Choose the correct part of speech for the word "offer."

1. Her offer for the house was the highest.

n **v**

2. The store will offer a big discount this weekend.

n **v**



A Listen and read out loud. TRACK 03

Artificial **limbs** are fake arms and legs. Humans and machines make artificial limbs to replace missing limbs. Over the years, the design and **performance** of artificial limbs have improved a lot.

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**KEY****PATTERN****Practice the key patterns.****over the years**

- **Over the years**, the design and performance of artificial limbs have improved a lot.
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such as

- They allow users more exact movements, **such as** climbing stairs and riding bikes.
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☐ c They have improved in design.
3. What are artificial limbs like today?
They are more like _____ limbs and have _____ parts.

C Write your own sentences with the key patterns.

KEY PATTERN 1 _____

KEY PATTERN 2 _____