

21st

CENTURY SKILLS

Free App

With CD-Rom

MP3 + Student Digital Materials

READING FUTURE

CONNECT

Starter

Dream

Discover

Develop

★ Connect

Change

Create

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Scope & Sequence

Subject	Unit	Title	Word Count	Reading Skill
ART & MUSIC	1	New Media Art	100	Sequencing
	2	Music in the City	115	Summarizing
	3	Online Guitar Lessons	113	Main Idea & Details
	4	Twyla Tharp	102	Sequencing
SCIENCE	5	DNA from Extinct Animals	115	Sequencing
	6	The Clever Octopus	118	Main Idea & Details
	7	How a Frog Grows	118	Sequencing
	8	Snake Skin	117	Main Idea & Details
SOCIAL STUDIES	9	Smart Glasses for the Blind	120	Main Idea & Details
	10	Reading with Your Fingers	103	Main Idea & Details
	11	Stevie Wonder	113	Sequencing
	12	Helen Keller	106	Cause & Effect
HOME ECONOMICS & TECHNOLOGY	13	3D Food Printing	115	Sequencing
	14	Microwave Popcorn	114	Reviewing
	15	How a Factory Makes Food	111	Sequencing
	16	Number Cakes	118	Sequencing

Vocabulary			Project	21 st Century Skills	
interact media	technology unique	movement experience	Make Robot Art	Critical Thinking	Creativity
city become	street musician	sign since	Make Your City Better	Critical Thinking	Creativity
online face-to-face	reason course	cancel nervous	I Can Teach!	Creativity	Communication
modern natural	decide famous	combine create	Dance, Dance, Dance	Communication	
extinct freeze	scientist copy	relative egg	Research an Extinct Animal	Creativity	
compare escape	brain pipe	clever bounce	Stop that Octopus!	Creativity	Collaboration
life cycle tail	lay breathe	pond front	Egg-laying Animals	Communication	
skin underneath	stretch rub	layer rip	Shedding Animals	Critical Thinking	Communication
blind object	engineer directions	partly document	Experience a New World	Collaboration	Communication
sight develop	raised accident	dot soldier	Change the World	Collaboration	Communication
instrument carefully	hearing award	quite life	Feel the Song	Critical Thinking	Communication
sick tutor	both including	deaf adventure	Amazing People	Critical Thinking	Communication
effort push	printer shape	ingredient design	3D Printing in the Future	Critical Thinking	Communication
microwave oil	by yourself fold	plain sound	I Can Do It	Communication	
harvest blade	ship slice	peel degree	The Process of Making Snacks	Creativity	Communication
remember sugar	recipe flour	butter spoon	My Recipe	Creativity	Communication

How to Use

Student Book

WARM-UP

A short reading and questions with an impactful image helps students activate their background knowledge and approach the topic.

NEW WORDS

Learn the meaning of important vocabulary with pictures.



READING

Reading the passage, students learn new information related to school subjects. New words are bolded in the passage.

The images help students understand the text and give more information about the topic.

VOCABULARY SKILLS & READING SKILLS

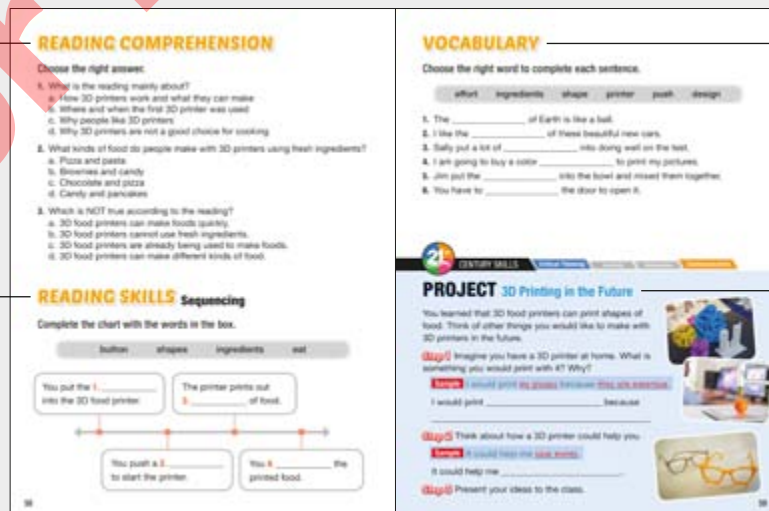
Vocabulary Skills and Reading Skills enhance students' understanding of the passage.

READING COMPREHENSION

Comprehension questions ensure understanding.

READING SKILLS

Students use different graphic organizers to practice reading skills.



VOCABULARY

Students learn the meaning and use of each word.

PROJECT

Project uses the topic of the unit and allows students to think of further steps. Students can develop 21st century skills through the Project.

Workbook

13 3D Food Printing

VOCABULARY CHECK
Complete the puzzle.

push shape design ingredient printer effort

Answers

- to press something to make a machine start working
- hard work to do something
- one of the things that are used to cook food

Words

- a machine that is connected to a computer and makes a copy of something
- a form that has height, width, and/or length
- a plan for how something will look or look like

COMPREHENSION CHECK
A. Circle T for true or F for false.

- 3D food printers are not used in restaurants yet. T F
- 3D food printing is a fast way to make food. T F
- There is a 3D food printer that can make brownies. T F
- 3D food printers can only make single foods. T F

B. Write the right word in each blank. There are two extra words.

to design ingredients push effort

- 3D printers require less time and _____ for cooking than traditional cooking.
- Some restaurants use 3D printers to make rice _____.
- You can start to print food by putting _____ into the printer.

SUMMARY
Complete the summary.

effort push printers designs ingredients shape fresh food

3D _____ printing is a fast and easy way to make food. Cooking can take a lot of time and _____ 3D food _____ can fix that problem. First, you put the _____ into the printer. Then you _____ a button and the printer prints out _____ of food that you can eat. People also use 3D printers to make rice _____ for candy, pancakes, and chocolate. There is also a 3D printer that uses _____ ingredients to make food like pizza, pasta, and brownies.

COMPREHENSION CHECK

Comprehension Check gets students to recall the passage and think more deeply.

SUMMARY

Students summarize information from the passage. By completing the summary, they check their understanding of the passage and vocabulary together.

VOCABULARY CHECK

Vocabulary Check gets students to recall the meaning, usage, and spelling of vocabulary.



Scan and find the tracks.

New Media Art

WARM-UP

Today, people are making artwork that mixes technology and new media. This new art is fun and exciting. It offers viewers a chance to play with the art.

Answer the questions.

- What might happen when you touch this art?
- What might you be able to do with this wall?

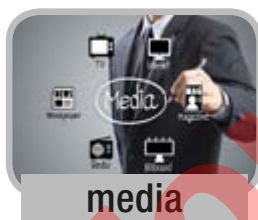


NEW WORDS



Listen and match the word with its meaning.

1.



media

a. knowledge or skill from doing things

b. the internet, newspapers, televisions, etc., as a group



experience

2.



unique

a. not like anything else

b. an act of going from one position or place to another



movement

3.



interact

a. the use of science to solve problems in life

b. to communicate with each other



technology

New Media Art

Art is becoming more and more interesting. Instead of just looking at a piece of art, you can do much more. You can **interact** with it. In other words, you become part of the art.

New **technology** brings people together with the artists' art. One artist uses computers to control his art. His art is a wall full of robot faces. The robots' eyes open when you stand close to it. Then the **eyes** follow your **movements**.

New **media** art is **unique** for each person. Every person's **experience** will be different. Like the pieces of art, each one is special.



Reading Time: ____m ____s / 100 words

VOCABULARY SKILLS

- What does it refer to in the reading?
a. a person b. technology c. art
- What does one refer to in the reading?
a. person b. experience c. piece of art

READING SKILLS

Sequencing

- What happens when a person stands close to the wall of robots' faces? Underline the sentence in the passage.
- What happens next when you stand close to the wall? Underline the sentence in the passage.

READING COMPREHENSION

Choose the right answer.

1. What is the writer's purpose for writing this passage?
 - a. To tell how to build a robot
 - b. To amuse with a story you will enjoy
 - c. To make you go to an art museum
 - d. To explain how people become part of the art
2. The writer probably thinks new media art _____.
 - a. is a lot of fun
 - b. is not interesting
 - c. only uses robots
 - d. is not useful anymore
3. Which is NOT true about new media art?
 - a. It uses technology.
 - b. You cannot interact with it.
 - c. You can become part of the art.
 - d. It gives a different experience to each person.

READING SKILLS Sequencing

Arrange the sentences in the correct order to complete the chart.

1	_____
2	_____
3	_____
4	You become part of the artwork.

- a. The eyes follow your movements.
- b. You stand close to the wall of robots' faces
- c. The robots' eyes open.

VOCABULARY

Choose the right word to complete each sentence.

movement control interact experience technology unique

1. Her dress is _____. She made it herself.
2. I want to _____ with people my own age.
3. The latest _____ can help people in many ways.
4. I posted a picture on the social _____.
5. Bob can't leave the classroom. The teacher is following his every _____.
6. I went to the park with my family last weekend. It was a great _____.



CENTURY SKILLS

Critical Thinking

Creativity

Collaboration

Communication

PROJECT Make Robot Art

Let's make a robot that will interact with people.
This is your chance to be a new media artist!

Step 1 Make a plan for your own robot. What do you want your robot to do?

Sample I want my robot to feed my cat.

I want my robot to _____.

How will your robot move?

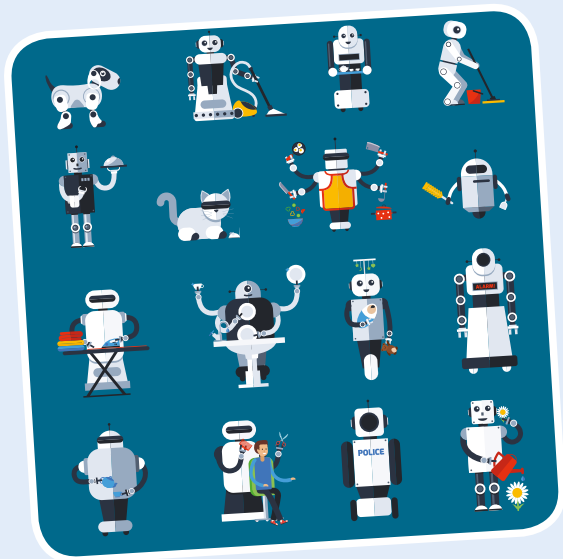
Sample My robot will move its arms back and forth.

My robot will _____.

Step 2 Make a plan to build your robot. Take out a sheet of paper and draw a picture of your robot. What will you call your robot? What can your robot do?

Sample My robot will be called Kitty. It can feed and hug my cat.

My robot will be called _____. It can _____.



READING FUTURE

CONNECT

Workbook

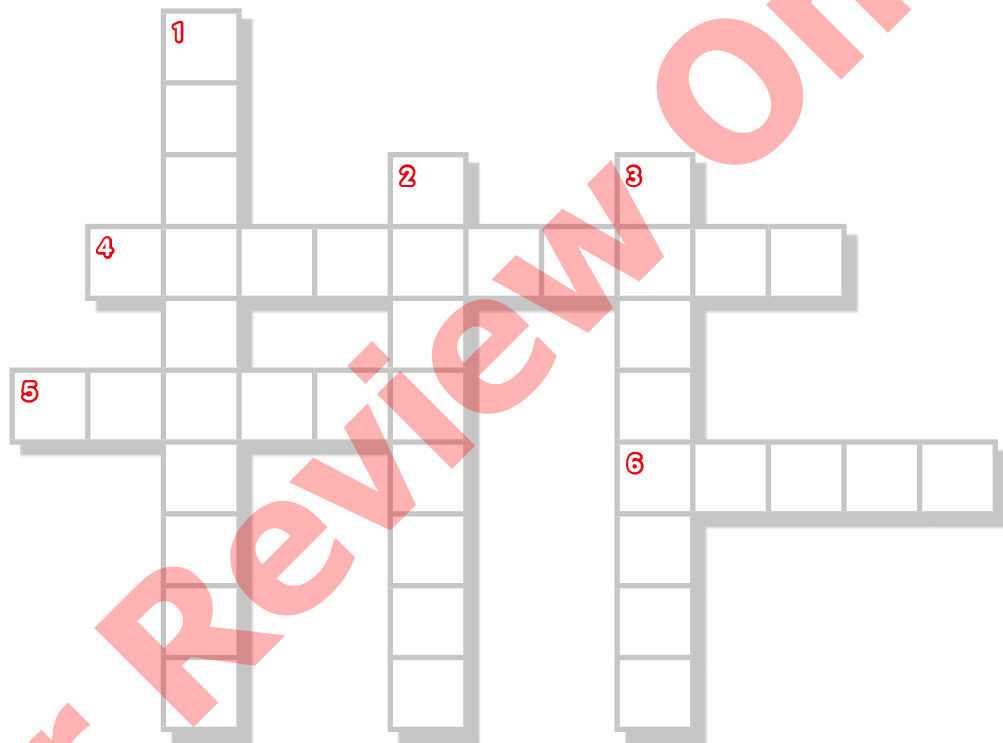
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VOCABULARY CHECK

Complete the puzzle.

media movement interact experience technology unique



Across

4. the use of science to solve problems in life
5. not like anything else
6. the internet, newspapers, televisions, etc., as a group

Down

1. knowledge or skill from doing things
2. to communicate with each other
3. the act of going from one position or place to another

COMPREHENSION CHECK

A. Circle **T** for true or **F** for false.

- | | | |
|---|----------|----------|
| 1. The viewer cannot interact with new media art. | T | F |
| 2. An artist used computers to control his art. | T | F |
| 3. Each viewer has the same boring experience with new media art. | T | F |
| 4. Robot eyes follow viewers' movements. | T | F |

B. Write the right word in each blank. There are two extra words.

interact unique movements experience technology

- Each viewer has a(n) _____ experience.
- New _____ is used for new media art.
- The robot eyes will follow your _____.

SUMMARY

Complete the summary.

interact special media unique robots' experience movements technology

Some people **1** _____ with art instead of just looking at it. New **2** _____ brings people together with the artists' art. One artist uses computers to control his art. His art is a wall of **3** _____ faces and their eyes follow your **4** _____. This type of new **5** _____ art is **6** _____ for each person and every person's **7** _____ will be different. Each experience is **8** _____ like the pieces of art.