





#### **Before You Read**

1. speed

- A **Discussion.** Look at the photos of the building above. What is special about it? Discuss with a partner.
- **Definitions.** Match the words with their meanings.

2. shapes

<b>5.</b> machine	<b>6.</b> sound (v.)	7. impossi	ble	8. human	
ab. some	thing like a comput	er or a car	e.	. When things _ seem to be go	good, they
<b>c.</b> When	something is o it.	_, no one -	f.	The of s fast it moves.	omething is how
	man, woman, and	child -	•	not fast the power or sto do things	trength

3. slow

4. energy

#### Reading

#### Strategy: Scanning.

Who had the idea for this building?

The architect wants to build the new building in Dubai. This is the view from the top of Dubai's tallest building.



# The Blilding That MOVES

Everyone knows that buildings don't move. They can't change the way they look. However, architect<sup>1</sup> David Fisher wants to change that.

Fisher has an amazing idea. He wants to make **80-story** buildings that change **shape**. Each floor will move around **slowly**. The floors will move at different **speeds**. Because of this, the shape of the building is always changing. "These buildings will never look the same," says Fisher.

His idea is an interesting one. However, Fisher doesn't stop there. He also wants the building to be "green." The building will make its own **energy**. In most buildings, only the top floor has a roof. In Fisher's building, each floor will have its own roof.

10 The roofs each have solar panels. This means a lot more solar energy. Also, **machines** between each floor of the building will catch the wind. They will turn the wind into energy.

Fisher's ideas **sound impossible**. However, that's what people also said before **humans** 

15 traveled into space!

- <sup>1</sup> An **architect** designs buildings.
- <sup>2</sup> green: good for the environment

3,4 a roof with solar panels



#### **Reading Comprehension**

A Circle the correct answer.

**Gist 1.** Another title for this reading is \_\_\_\_\_.

- a. A Building for the Future
- **b.** The Life of an Architect
- c. How Green Buildings Work

Vocabulary 2. In line 3, 80-story means the building has 80 \_\_\_\_\_.

a. shapes

**b.** floors

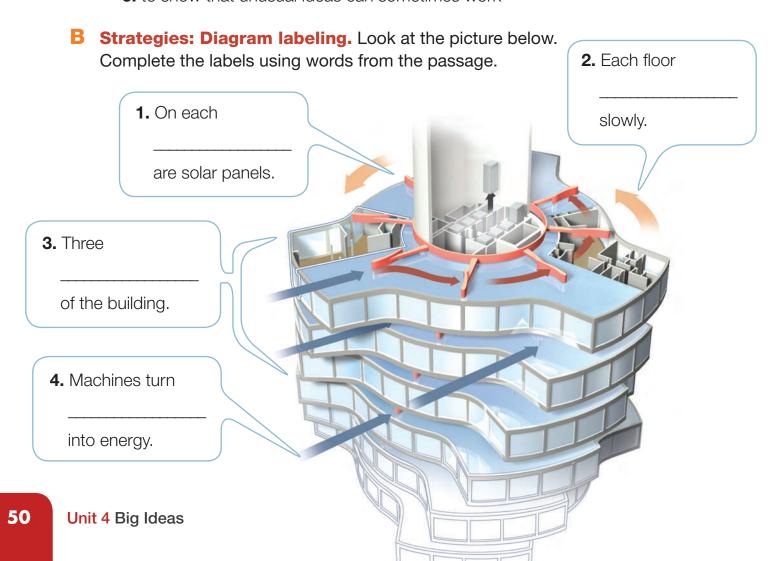
c. different speeds

**Detail 3.** Fisher's building makes a lot of solar energy because the building \_\_\_\_\_.

- a. is always moving
- **b.** is very tall
- c. has many solar panels

**Purpose 4.** Why does the writer say "that's what people also said before humans traveled into space!"

- a. to show why Fisher's building will never work
- **b.** to show why Fisher's building is like a spaceship
- c. to show that unusual ideas can sometimes work



#### **Language Practice**

A Vocabulary: Completion. Complete the sentences using a word from the box.

	machines energy		impossible humans							
	Bikes and cars travel at different  Before the 1950s, only a few people knew about the we now call computers.									
3.	The tea was heavy, so the porters carried it up the mountain very									
	Solar panels can make from the sun.									
	For many people, an architect's jobvery hard.				y hard.					
6.	Some anima		k a little, but or	nly		can use more than				
7.	For now, living	ng on Mar	s is still		_•	Usage				
8.	The		_ of most build	dings never (	changes.	Sound can have two meanings (v.) That sounds interesting. Her job sounds fun! (n.) a loud sound, a noisy sour				
Gı	rammar: Us	ing <i>how</i> e	<b>ever.</b> Read th	ese senten	ces.	(II.) <b>a loud</b> sound, <b>a noisy</b> soun	IU			
	Fisher's ideas sound impossible, <b>but</b> that's what people also said before humans traveled into space.  Fisher's ideas sound impossible. <b>However</b> , that's what people also said before humans traveled into space.									
			e to finish eac people near tl							
2.	The Great Py	/ramid is m	nore than 4,000	) years old.						
3.	Fisher's build	ding sound	ds very interes	ting.						
4.	Many people	e love griz	zly bears.							

**4B** 

### Big Ideas, Small Sizes



- A **Discussion.** Some good designs can help people around the world. Look at the pictures. Why are these inventions good? Talk about your ideas with a partner.
- **Definitions.** Match the words with their meanings.
  - 1. probably 2. both 3. clean 4. roll 5. sick 6. easy 7. last (v.) 8. repeat

\_\_\_\_a.

\_\_\_\_ **b.** do again

\_\_\_\_ **c.** not dirty

\_\_\_\_\_d. When something will \_\_\_\_\_ happen, it is likely to happer e.

\_\_\_\_\_f. two things

\_\_\_\_**g.** not hard to do

\_\_\_\_, they don't stop or break.

#### Reading

**Strategy: Skimming.** Quickly read the passage. Who are these inventions for? Tell a partner.

- a. people without clean water
- **b.** people in the U.S.
- c. people with a lot of money

## Making It Safe

Do you drink water every day? Is it clean? You **probably** answered yes to **both** questions. But 900 million people around the world don't have safe drinking water. Without **clean** water, they get **sick** more easily.

That's why these two ideas are so great! They can make a big difference for a lot of people.

#### The LifeStraw

This straw cleans water when you drink through it. It is small and **easy** to carry. You can get clean water anywhere you go. It **lasts** over six months for most people. You don't have to worry about getting a new **one** often.

#### The Q Drum

This new **container** helps people carry clean water to their homes. In rural places, people often have to walk to get clean water. Then they have to carry it back to their homes. They **repeat** this every

20 time they need water, but water is heavy! You don't have to lift the Q Drum. You can **roll** it home. No more carrying 50 kilograms of water!



#### **Reading Comprehension**

#### A Circle the correct answer.

**Detail 1.** The passage says that 900 million people \_\_\_\_\_.

a. need clean water **b.** use the LifeStraw c. carry water to their homes

**Reference 2.** In line 12, the word **one** refers to \_\_\_\_\_.

**a.** a straw

**b.** a container

c. water

**Vocabulary 3.** Which of these is a **container** (line 14)?

a. a chair

**b.** a box

c. a knife

**Inference 4.** The writer probably thinks \_\_\_\_\_.

a. carrying water is very easy for most people

**b.** the straw is more useful than the container

c. most people don't really think about their water

**Strategy: Classification.** Which invention(s) do these sentences describe. Write **a** to **f** in the correct place.

**a.** It helps people have clean water.

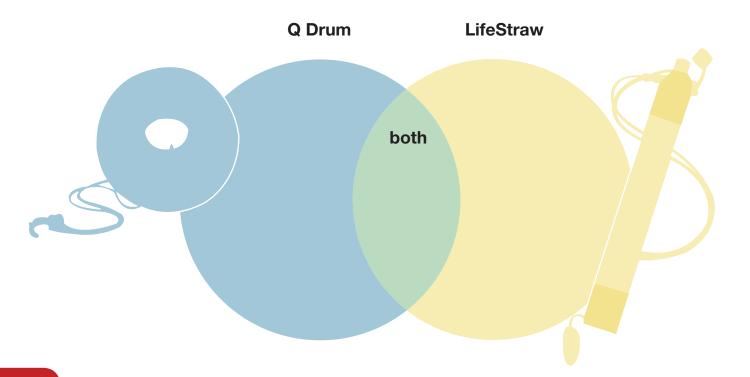
**b.** You can carry it.

c. It's easy to use.

**d.** It is heavy, but you can roll it.

**e.** It helps people take water to their homes.

**f.** It helps people not get sick.



#### **Language Practice**

Vocabulary: Words in context. Share your answers	with your partner.							
1. What are some times when you repeat what someone says?								
2. What are some things you can roll?								
What do you think is popular now but <b>probably</b> won't be popular in a year?								
What do you do when you are sick?								
What do <b>both</b> your mother and father like to do?								
6. Do you think studying English is <b>easy</b> ?								
7. Give an example of something that lasts more than a year.								
How often do you <b>clean</b> your room?								
Grammar: have to / don't have to. Read these sen	tences from the passage.							
<ul> <li>a. You don't have to worry about getting a new one so</li> <li>b. In rural places, people often have to walk to get clea</li> <li>c. Then they have to carry it back to their homes.</li> <li>d. You don't have to lift the Q Drum.</li> </ul>	n water.  Usage							
Complete each sentence using have to / don't have to so they are true for you. Compare answers with a partner.	Use have to / don't have to with I, you, we, or they. Use has to / doesn't have to with he, she, or it.							
<b>1.</b> l wal	k to school every day.							
<b>2.</b> I make my	own lunch every day.							
<b>3.</b> On Sunday, I	·							
4. In my English class, we	·							



**Solar Cooking** 

A Preview. Look at the pictures and label the different ways of cooking food.

electricity solar energy

gas wood fire







2

3

4

**B** As you watch. Choose True (T) or False (F) for each sentence.

- Solar cooking is both fast and cheap.

  T F
- 2. SCI shows people how to use solar energy. T F
- **3.** When the WAPI's wax melts, people can drink the water. **T F**
- 4. Before solar cookers, most of the women in the video cooked using gas.T F

C Think about it. How is solar cooking better for the Earth than other ways of cooking?