BIG QUESTION 9

Why do we make buildings?

Think and write.

What do you know?

What do you want to know?

UNIT 17 Get Ready

Words

A Label the pictures.

lighthouse tower skyscraper stadium office
warehouse showroom palace art gallery
courthouse theater concert hall

1 

2 

3 

4 

5 

6 

7 

8 

9 

10 

11 

12 

LIVEWORKSHEETS

B **Read the clues. Guess the word.**

1 This place is very tall. It is narrow. It may have a pointy top.
It is a _____ .

2 This place is somewhere you go for entertainment. You will see people acting or singing here. You will also see sets here.
_____

3 This place is very large and fancy. Someone important lives here. The person might be someone from a royal family.
_____

4 This place is found in a big city. It is very tall. It has many floors. There might be many offices inside.
_____

5 This place is somewhere you go if you want to buy something. In this place you might see furniture or cars displayed.
_____

6 This place is large. It may have a lot of boxes. It is used to store things before they are sold.
_____

7 This place is a government building. You can find a judge here.
_____

8 This is a place to look at things. You can find paintings in this place. Artists might display their work here.
_____

9 This is a place near the water. It helps boats stay away from the rocky shore.
_____

10 This is a place to go to see athletes. You can see many kinds of games here.
_____

11 This place is somewhere for entertainment. You go here is you like music. It may have a piano.
_____

12 People work here. There are desks and chairs inside. There may be many people working.
_____

LIVEWORKSHEETS

Read

A **Read. How do green buildings help the environment?**

B **Read again. Remember: When you read, think about sequences. What comes first, next, and last?**

Going Green

All around the world, buildings are *going green*! People are designing *green buildings*. What does it mean to *go green* or to make a *green building*? A green building is designed in a way that is not harmful to the environment. The building uses energy, water, and other resources in ways that are good for the environment.

Green buildings can include buildings for work: **offices**, **skyscrapers**, or **warehouses**. They can be buildings for entertainment: **theaters**, **concert halls**, **art galleries**, or **sports stadiums**.

How is a green building made? The steps of planning are the same as for other buildings. First, the architect needs to make a design. Then, the design needs to be approved. Finally, construction can begin.

In the first step of making a green building, design, the architect must think about the three most important features. These are the use of energy, water, and materials. The architect plans how to use materials, energy, and space in a way that will be good for the environment.

There are many ways to save energy. Architects can design buildings to use natural light. Buildings can also be made with solar or wind power to get energy from the sun or wind. To save water, green buildings can have areas on the roofs to collect rainwater. Bathrooms and kitchens can have sinks and toilets



that conserve water. As for the materials used to build the building, it is important to use materials that do not have chemicals that are harmful to the air or water. Recycled materials can also be used for building.

Buildings around the world use all three of these ways to *go green*. An office building called CH2 in Melbourne, Australia, uses wind and solar power. The Village Underground in London, England, (a cultural center with a **theater**, **concert hall**, and **art gallery**) is made from recycled train cars and is powered by solar and wind power. The Academy of Sciences building in California in the U.S. is the greenest museum in the world. It has recycled materials, efficient heating, solar energy, and an enormous "living roof" of plants. A temple in Thailand is made out of one million recycled glass bottles! This is a good use of recycled material, and it also lets natural light into the temple.

Green buildings are making the world a better place!

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LIVEWORKSHEETS

Comprehension

A **How are buildings made? Fill in the chart to put the events in the correct sequence. Look at the article on page 164 to help you.**

first event	second event	third event

B **Answer the questions.**

1 What is a green building?

2 What are the three important features of a green building?

3 What are some ways to save water and energy in a building?

4 If you could design a green building, what kind of building would you make?

C **Words in Context** Complete the paragraph.

steel architect function construction countless aquatics

This _____ (1) has designed _____ (2) buildings. There are so many! First she has to think about the _____ (3) of the building, or how it will be used. She makes her plans. When they are approved, _____ (4) can begin. This building will be an _____ (5) center. There will be a big pool. The building is made of recycled _____ (6).



LIVEWORKSHEETS

Grammar in Use



A Study the grammar.

Learn *A, An, The,* and No Article

First the architect needs to make **a** design. Then **the** design needs to be approved.
(first time / second time)

An approval is important.
(third time)

How is **a** green building made?
(one of many)

It's good for **the** environment.
(something known)

No Article

I love to play basketball.
(sports)

I am very good at math.
(school subject)

It's time for lunch.
(meal)

There are many temples in Thailand.
(most countries)

Countries with article *the*
the United States
the United Kingdom
the United Arab Emirates
the Netherlands
the Philippines

B **Circle the correct article. If the sentence does not need any article, circle the ×.**

1 **A / An / ×** architect is designing **a / the / ×** new green building that I told you about.

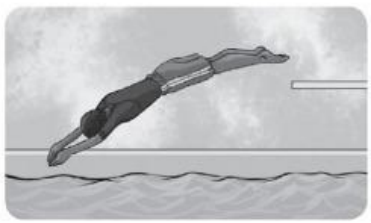
2 **The / A / ×** building is going to be **a / an / ×** new sports center.

3 **A / The / ×** sports center is going to be called Green Sports Center.

4 Green Sports Center is going to have **a / the / ×** gym for **a / the / ×** basketball.

5 It will also have **a / the / ×** pool for **an / the / ×** aquatics.

6 I'm glad you got the tickets for **a / the / ×** game at **a / the / ×** sports center.



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LIVEWORKSHEETS

C **Correct the mistakes. Rewrite the sentences below.**

1 I'm going shopping for groceries. Do you need anything from a store?

2 Yes, thanks. I need the bunch of bananas.

3 I'm leaving on Thursday for my trip to the Spain.

4 I'm playing the basketball with my friends.

5 I need new dress. I want to get a blue one I told you about yesterday.

D **Fill in the missing articles. If no article is needed, write an × on the line.**

1 _____ reading on page 165 tells about green buildings.

2 _____ green building uses less energy.

3 There is _____ green building in _____ Australia. _____ building is called CH2.

4 I would like to see _____ Academy for Science in California. I like to study _____ science.



E **Tell about your school building or another building in your town. Use articles *a*, *an*, and *the*, and sentences with no articles.**

LIVEWORKSHEETS

Word Study

A Fill in the chart with phrasal verbs.

	Present	Past
1	catch up	caught up
2		fell off
3	put down	
4	pick up	
5		lay down
6		went on
7	go back	
8		stood up
9	go up	

B Label the pictures with past tense words from the box above.

1 

caught up

2 

3 

4 

5 

6 

7 

8 

9 

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LIVEWORKSHEETS

Writing Study

A **Correct the run-on sentences. Rewrite as two sentences, use a semicolon, or add a conjunction *(and, but, because)*.**

1 There is a new building in the town it is a green building.

2 Many new buildings are made with solar power they help the environment.

3 The skyscraper has a rainwater collection tank on the roof this helps the building use less water.

4 I want to be an architect I would like to design interesting buildings.

B **Write a paragraph based on the model below.**

Tell about interesting buildings you have seen where you live. Make sure to include correct use of articles *a*, *an*, and *the*. Do not use run-on sentences. Instead, use semicolons, conjunctions, or split long sentences into two sentences.



In my city, there is a new building for our museum of TV and film. The new building has a lot of windows; the sunlight makes it very bright. In the museum, there is an exhibit about old movies. The exhibit shows sets and costumes from old movies. Many film students go there because they can learn a lot about films. I am planning to go to the museum this week, but I won't be able to go until the weekend.

LIVEWORKSHEETS