

StartUp 3
Reading

Unit5 – Lesson4
Page60

Have your Ss look at the picture. Convey the meaning and try to elicit the word. Then practice the pronunciation chorally and individually.





THREE DIMENSIONAL

Have your Ss look at the picture. Convey the meaning and try to elicit the word. Then practice the pronunciation chorally and individually.



Teach the form of the word. Then ask some concept checking questions.



DISASTER

Have your Ss look at the picture. Convey the meaning and try to elicit the word. Then practice the pronunciation chorally and individually.



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NATURAL RESOURCES

Have your Ss look at the picture. Convey the meaning and try to elicit the word. Then practice the pronunciation chorally and individually.

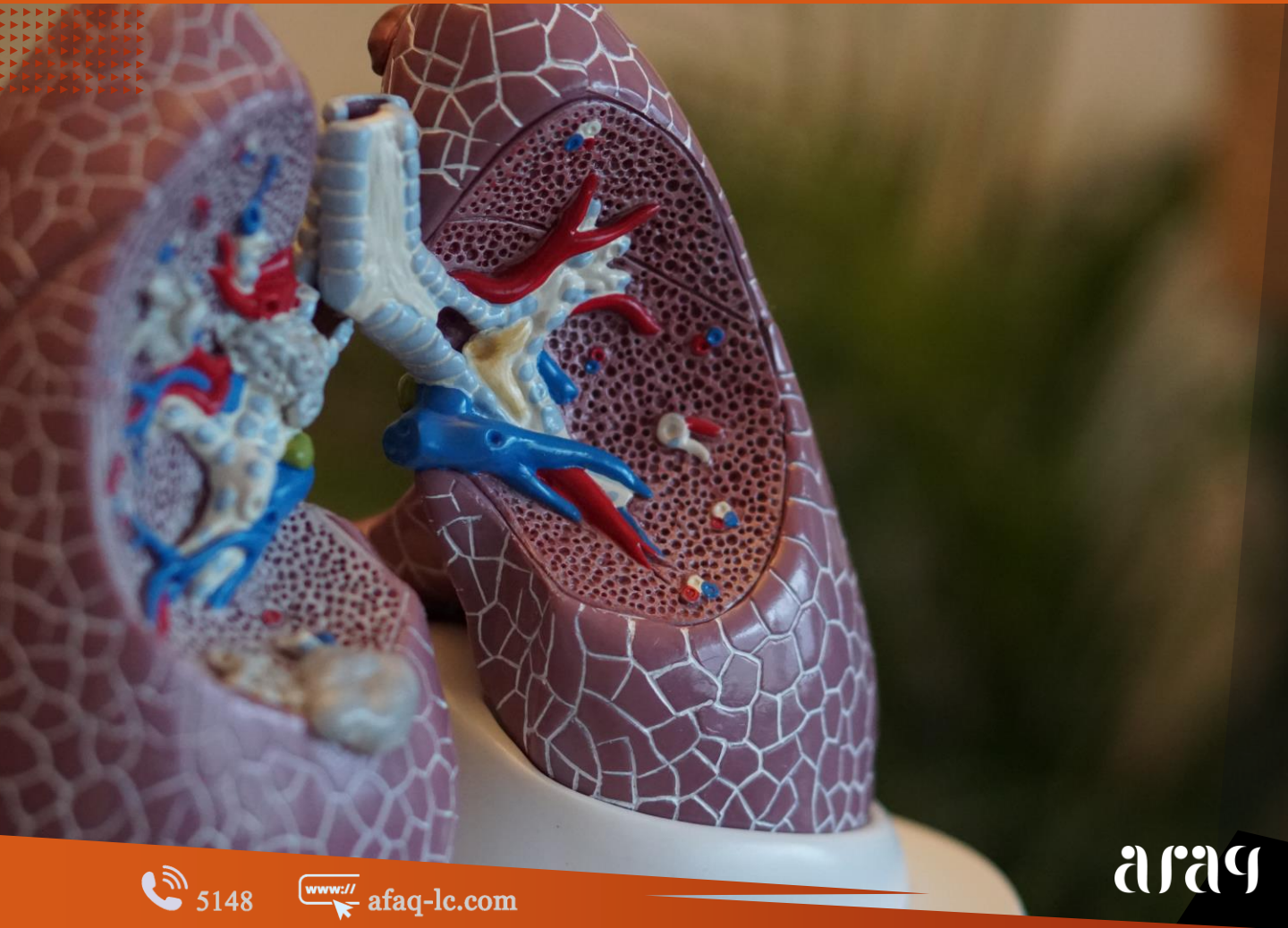


Teach the form of the word. Then ask some concept checking questions.

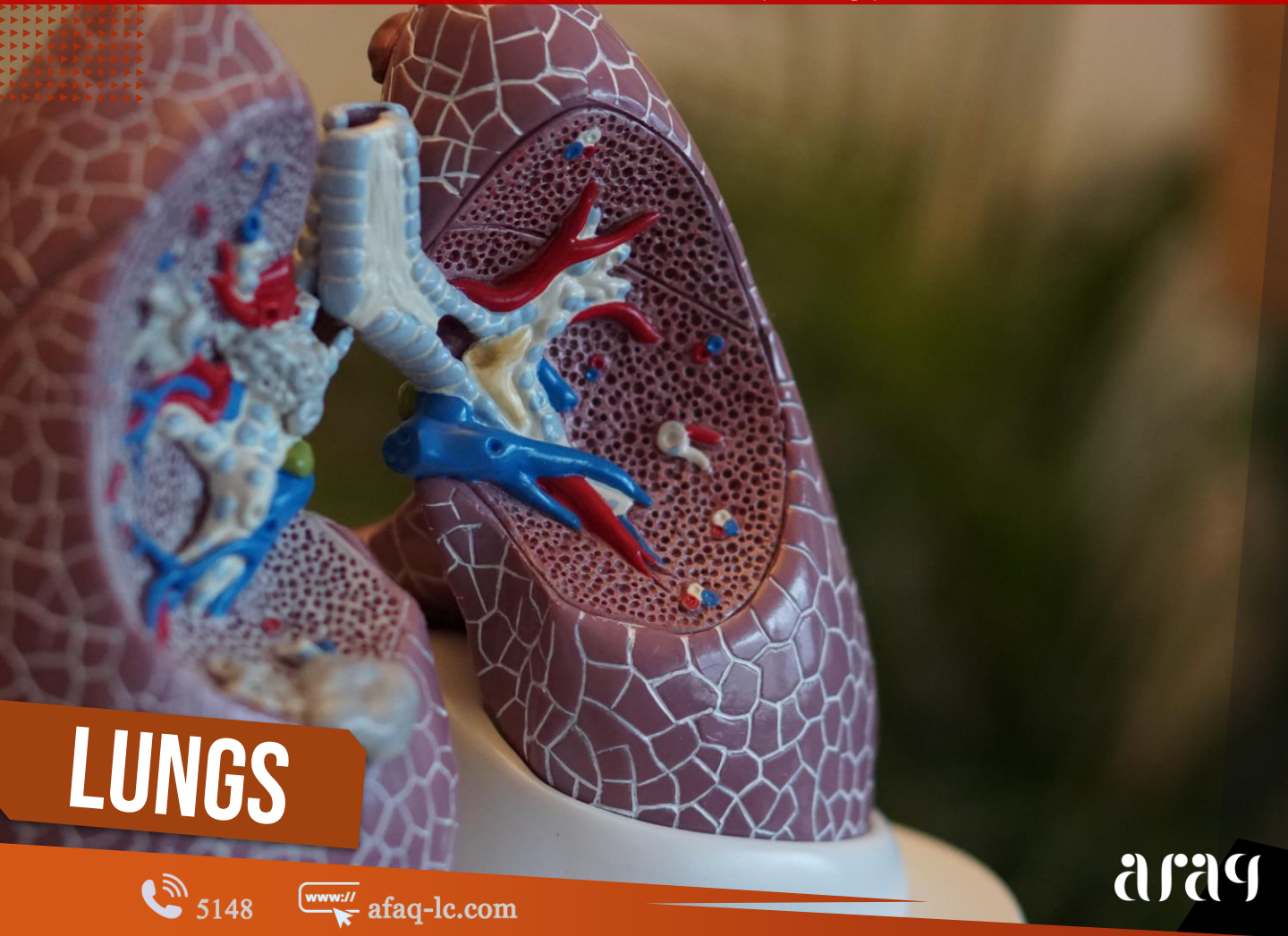


WASTE

Have your Ss look at the picture. Convey the meaning and try to elicit the word. Then practice the pronunciation chorally and individually.

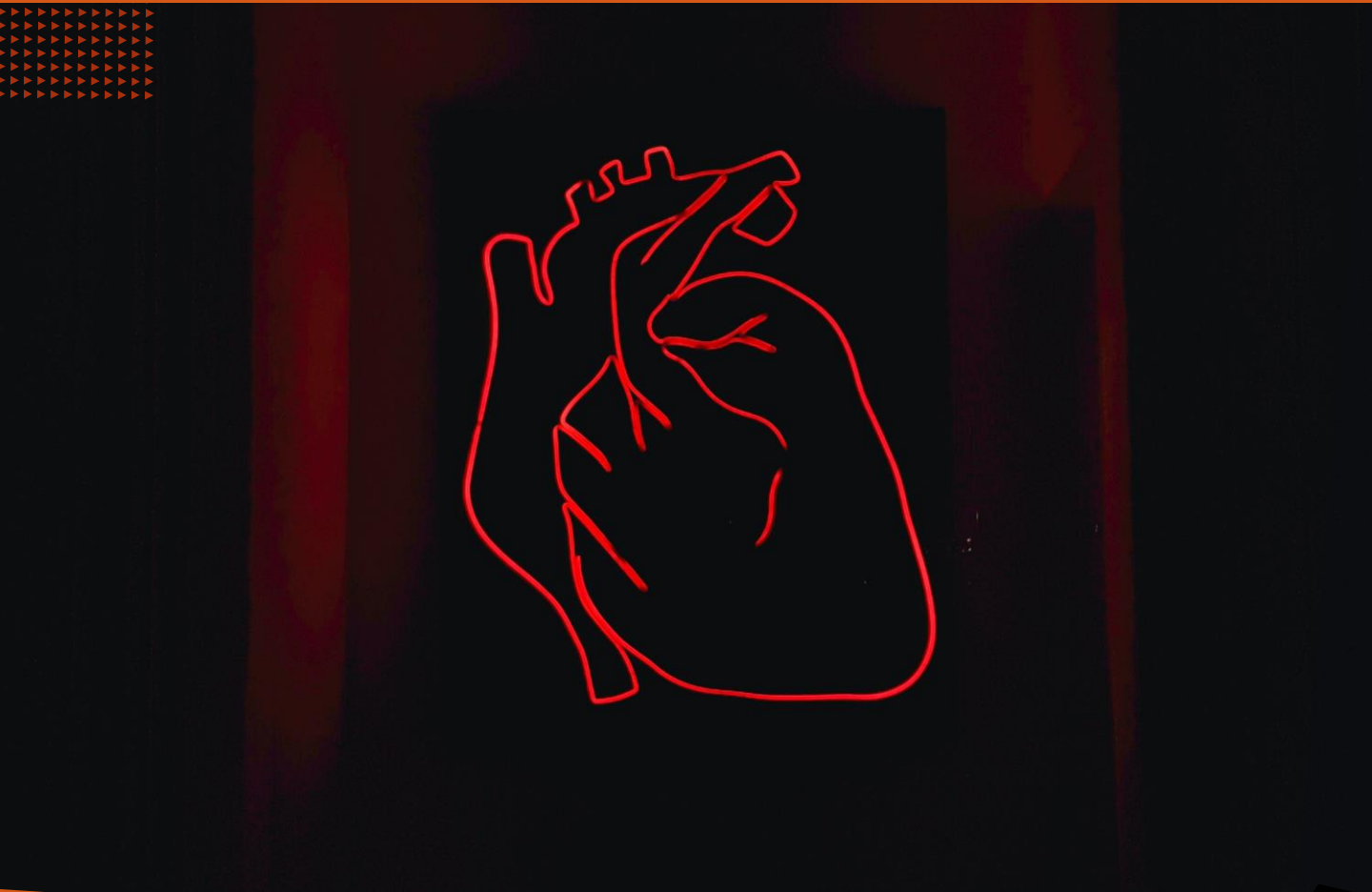


Teach the form of the word. Then ask some concept checking questions.



LUNGS

Have your Ss look at the picture. Convey the meaning and try to elicit the word. Then practice the pronunciation chorally and individually.

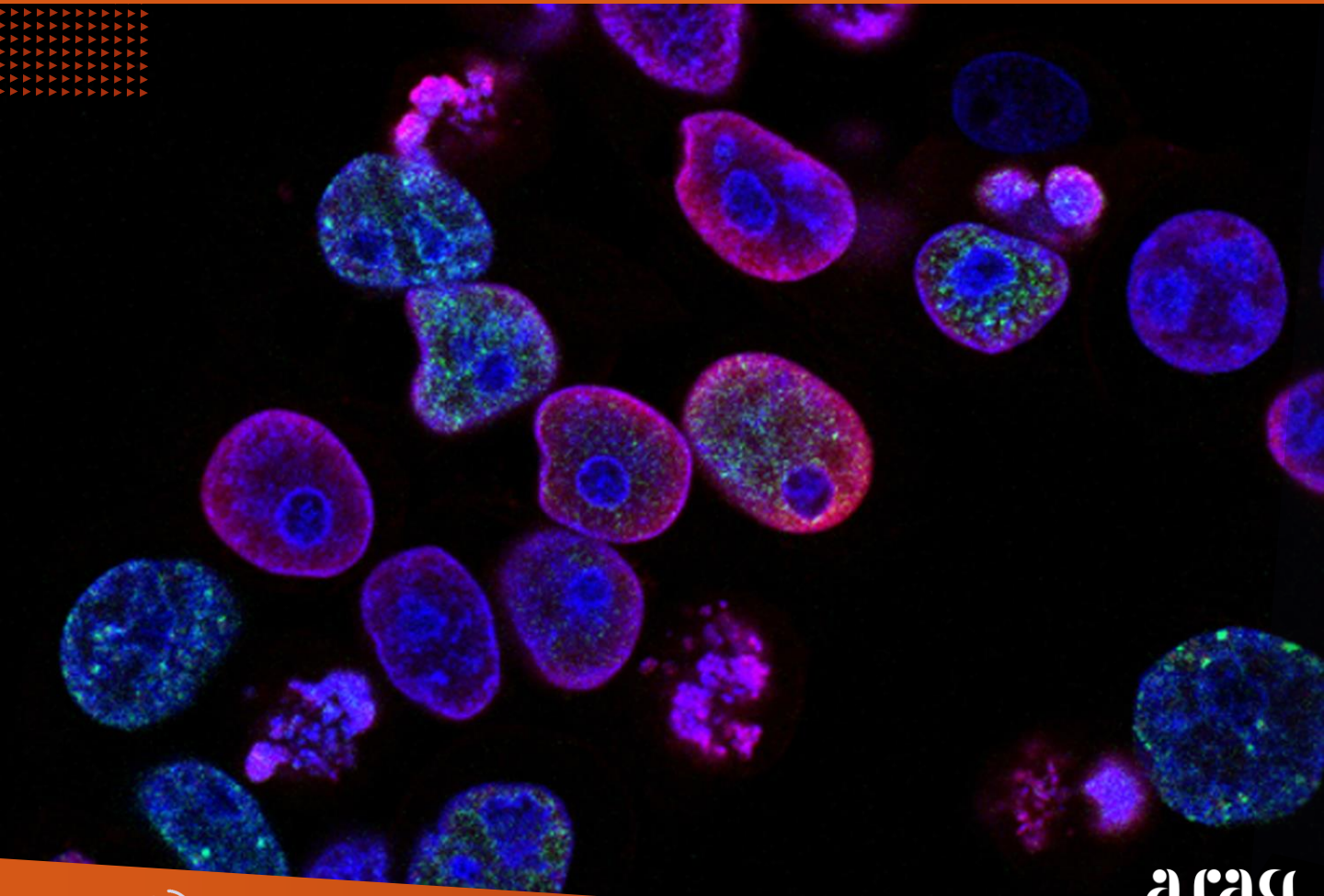


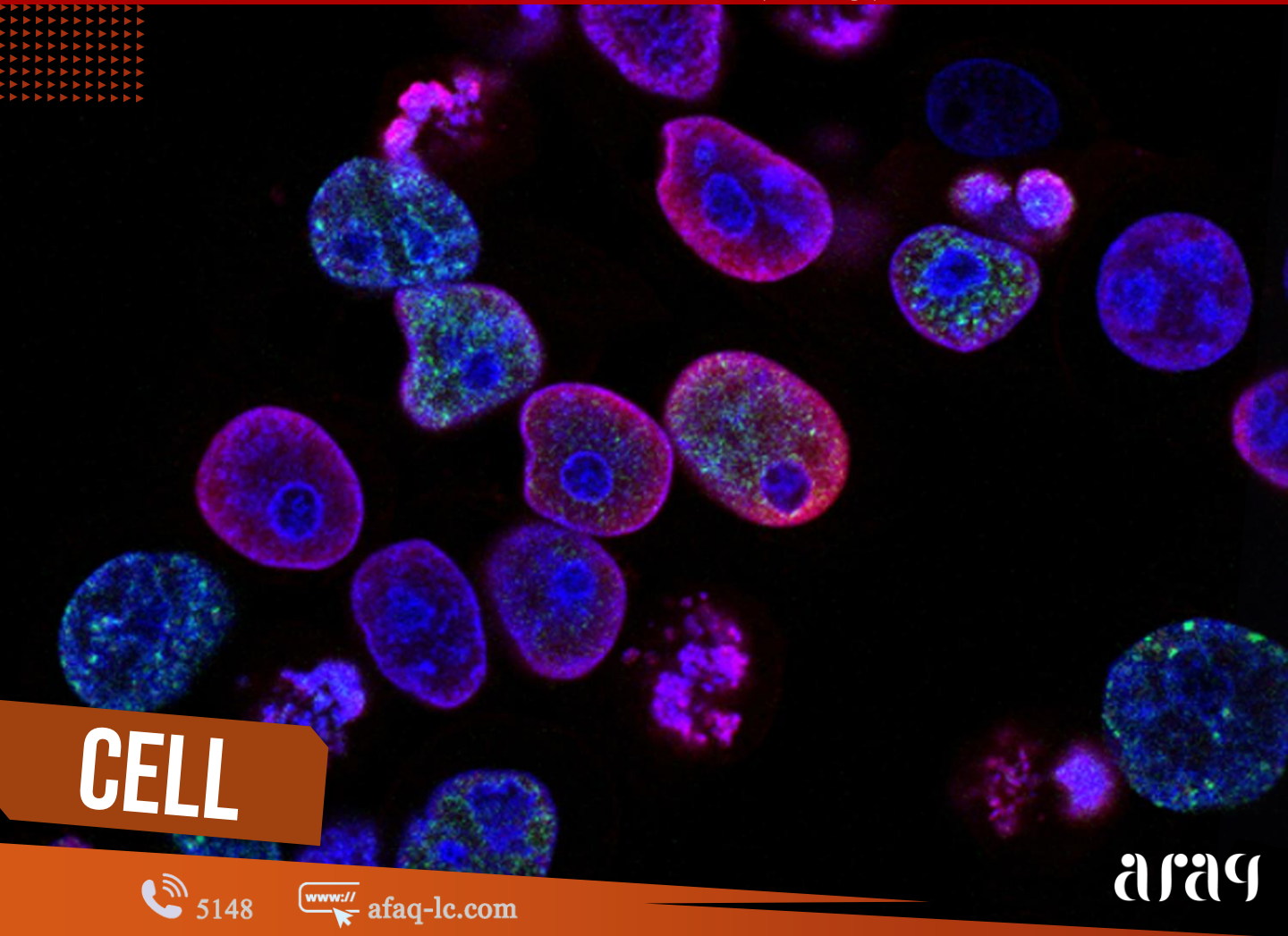
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HEART

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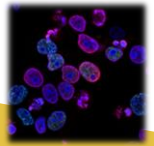


CELL

MATCH THE WORDS WITH THE DEFINITIONS.

___	1. three-dimensional	a.	the body part in your chest that makes blood move through your body
___	2. a disaster	b.	the smallest part that forms an animal or plant
___	3. waste	c.	materials from nature, such as land, forests, water, etc.
___	4. natural resources	d.	an event that causes great harm and damage, like a terrible storm
___	5. skin	e.	the body part in your chest that you use to breathe
___	6. organs	f.	what is left after you have used something
___	7. the lungs	g.	the outside part of a person's or animal's body
___	8. the heart	h.	parts of the body that have a special purpose
___	9. a cell	i.	with length, depth, and height



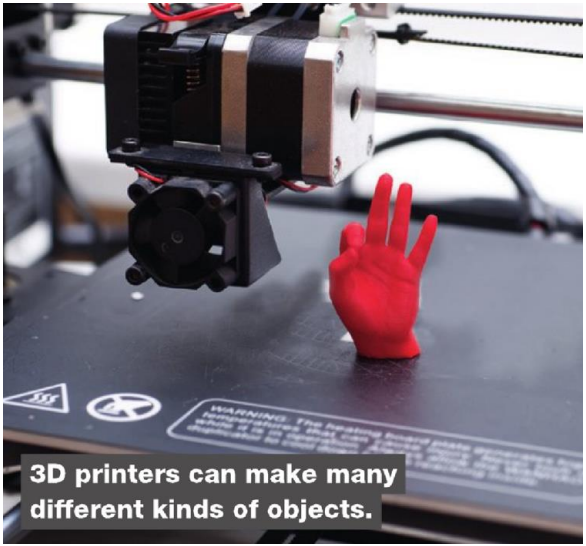





Have your students make sentences about each picture using the words they have learned. Focus on accuracy.

A PREVIEW Look at the title and the photograph. What do you think the article is about?

3D PRINTING: A WHOLE NEW WORLD



3D printers can make many different kinds of objects.

LISTEN TO THE AUDIO CAREFULLY.

5-20

What is the article mainly about?

a. 3D printing is a fun way to create small plastic objects.
b. 3D printing can change the way we do many things.
c. 3D printing is a technology that has been completely developed.

Have your Ss listen to the audio and answer the question. Check the answers in class.

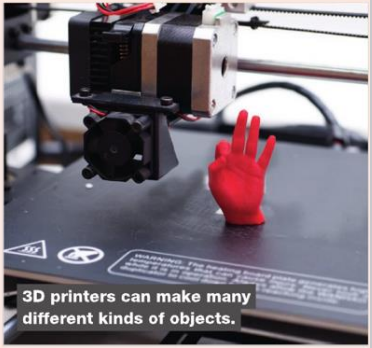
Most people today know about 3D printers. These are machines that "print" three-dimensional objects from a computer program. The objects are built using thousands of tiny little slices. The slices are layered together to form a solid object. At first, 3D printers only made small, simple plastic objects. But the technology behind them is improving every day. So, what will we be "printing" in the future?

New Ways to Make Food

Today, many people do not have enough food, but 3D printing will soon be able to help. Scientists are creating new 3D-printed foods which could be given to people without food, such as those who have been through a disaster. 3D foods can be made with the vitamins and minerals that people need to be healthy using ingredients that are grown quickly and easily. For example, different types of plants like algae and grass. These foods can also be designed so that they are easy to move and deliver.

New Ways to Build

There are places around the world where it is hard to find a clean and inexpensive place to live. In addition, a lot of natural resources are used in traditional building. But scientists have found a way to build homes with the help of a huge 3D printer. These homes are cheaper but still strong, and produce less waste. In China, an entire 3D-printed house was made in one month. In the future, all new homes might be made with 3D printers.



3D printers can make many different kinds of objects.

New Ways to Save Lives

The strangest and most exciting area of 3D printing could be medicine. Today, we are able to print medical equipment, prosthetics, like artificial arms and legs, and even skin! But we could do so much more. Take organs, for example. They're not always available, so people often have to wait a long time for one. But someday, doctors might be able to print out a new lung for someone or even a new heart if the "ink" of a 3D printer was made of cells.

Clearly the future of 3D printing is so much more than simple plastic objects. Someday, 3D printing will likely be involved in every part of our lives!

READ THE ARTICLE. COMPLETE THE SENTENCES.

1. 3D-printed food can be made out of _____ like algae and grass.
2. 3D-printed houses are less _____ and produce less _____ .
3. When 3D printers use _____ as the ink, they will be able to print _____ like a new lung or heart.
4. 3D printing will change _____ because it will help heal people.

Have Ss identify the correct meaning. Go over the answer as a class.



C FOCUS ON LANGUAGE **Reread lines 5–7 in the article. Think about the words *behind* and *"printing"*. Then answer the questions.**

1. What does the word *behind* mean in this sentence? _____

_____

2. Why is the word *"printing"* in quotation marks? What does it mean in this sentence?

_____

D Read the Reading Skill. Read the article again. Identify the problems and solutions the author describes. How could the solutions help?

Problems	Solutions	How the solutions could help

READING SKILL Identify text structure: Problem / Solution

Texts are organized in different ways depending on what they are describing and want to explain. One way to organize a text is to introduce a problem and then describe the solution to that problem.

WHAT WAS THE ARTICLE ABOUT? RETELL THE MOST IMPORTANT IDEAS. USE YOUR OWN WORDS.

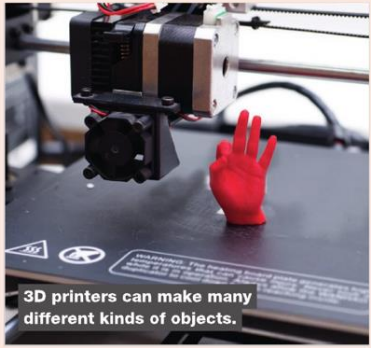
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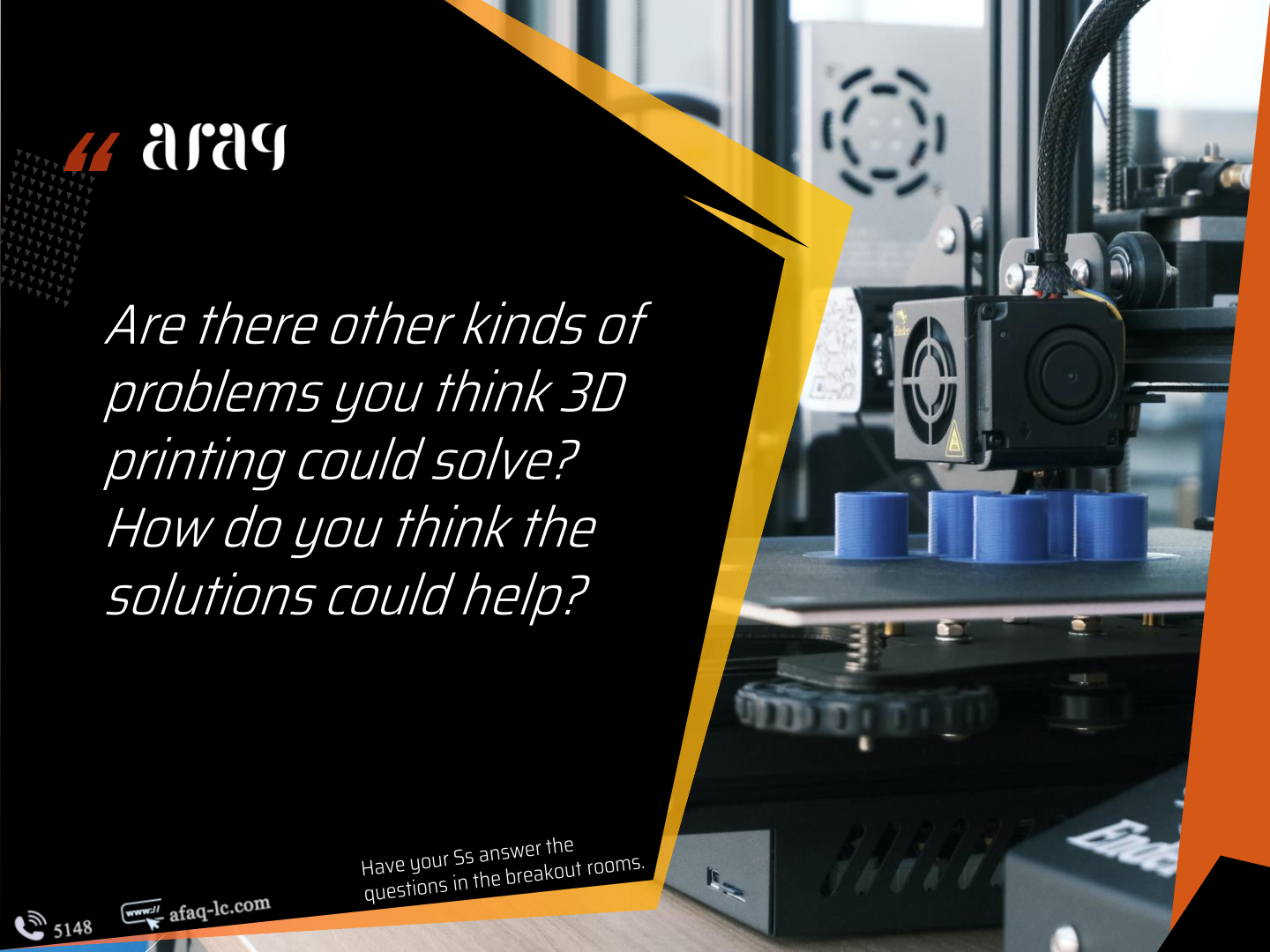
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Clearly the future of 3D printing is so much more than simple plastic objects. Someday, 3D printing will likely be involved in every part of our lives!

Have your Ss tell the summary of the text in breakout rooms.



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Are there other kinds of problems you think 3D printing could solve? How do you think the solutions could help?

Have your Ss answer the questions in the breakout rooms.

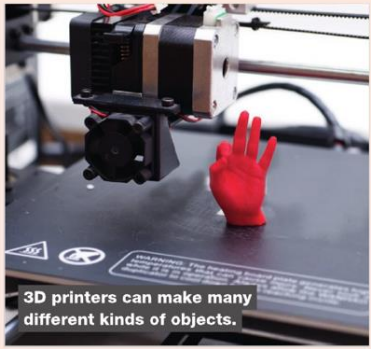
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READ THE TEXT AND UNDERLINE ANY NEW WORDS YOU DO NOT KNOW.

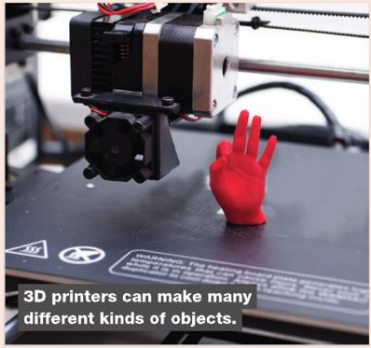
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AS HOMEWORK USE A DICTIONARY TO LOOK UP THE WORDS AND LEARN THEM.