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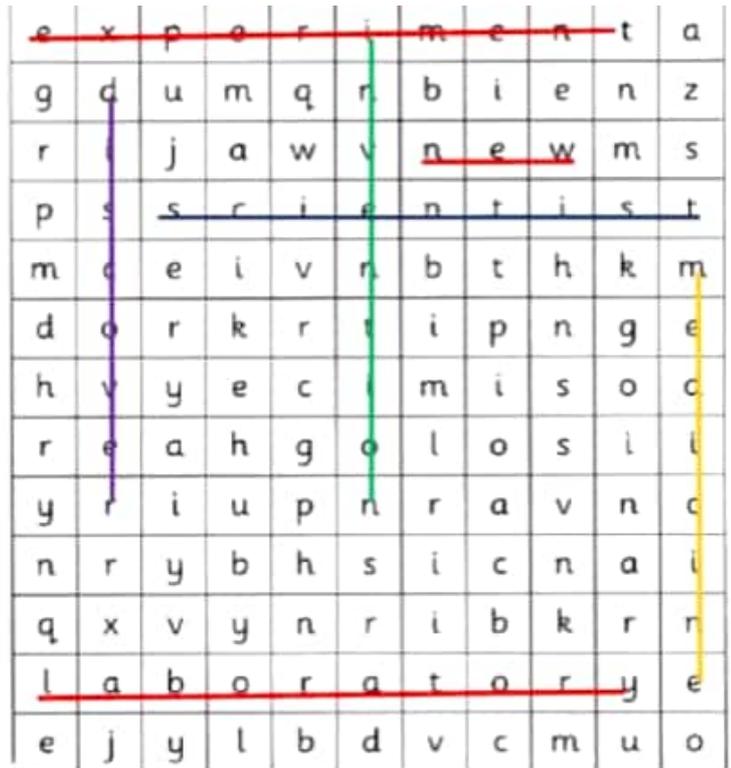
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## Lesson 1 Science

### 1 Vocabulary

Find and circle seven science words.

experiment  
invention  
new  
scientist  
discover  
medicine  
laboratory



### 2 Write

Complete the sentences with a word from Activity 1.

- 1 Someone who works in Science is called a scientist.
- 2 Some scientists work in a laboratory. Others work outdoors or in hospitals.
- 3 Science is all about finding new ways of doing things.
- 4 An experiment is a test to help us learn something or see if something is true.
- 5 Scientists try to discover new information about how the world works.
- 6 Some scientists work with doctors and patients to make medicine to treat illnesses.
- 7 Probably the most important invention of the 20th century was the telephone.

## Answers

- 1 It's half past seven.
- 2 It's quarter to nine.
- 3 It's eight o'clock.
- 4 It's four o'clock.

هاجر أحمد

مدرسة النعیمیة الخاصة

At 8 pm, six people arrive to help with the experiment. We call them the testers. They stay all night in the laboratory.

We ask them to do their first test on the computer.

At midnight, the testers go to bed.

We put special machines on them. The machines tell us how they sleep.

At 4 am the testers wake up. We ask them to do another test on the computer.

After that, the testers can't go back to sleep.

At half past seven, all the testers eat breakfast together.

At quarter to nine, it's time for the testers to do another test on the computer.

That makes three tests!



a The testers arrive. 1

b The testers do their second test. 5

c The testers do their third test. 7

d Breakfast time for the testers. 6

e The testers do their first test. 2

f Special machines for the testers. 4

g The testers go to bed. 3

# Lesson 3 The bird call experiment

## 1 Making predictions

Write your prediction for the result of the experiment.

I think that a short straw will make a higher noise because it makes more vibration

## 2 Let's do it!

Record your results in the table.

	Straw 1 Medium: _____	Straw 2 Short: _____	Straw 3 Long: _____
Type of noise	<u>medium</u>	<u>highest</u>	<u>lowest</u>

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## 3 Write

Write your findings. Complete the sentences below.

1 The highest noise was from straw 2 (short)

2 The lowest noise was from straw 3 (long)

3 What happened to the noise when you used a straw that was longer or shorter?

shorter straw = higher noise

longer straw = lower noise

4 My prediction was correct / incorrect.

5 I learned that \_\_\_\_\_

different straw = no difference

## Lesson 4 A new experiment

**Experiment:** Does the width of the straw change the noise made?

Fill in the gaps to write the instructions for your experiment.

Draw a picture to show what happens at each stage.

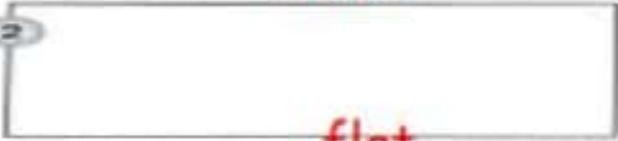
**Instructions:**

1



Take the three straws  
Cut them to same length.

2



Squash them flat.

4



Put the V end of the narrow straw in your mouth.  
Blow as hard as you can.

6



write down the different noises each straw makes.

**Materials needed:**

1 narrow straw  
1 medium straw  
wide straw  
pair of scissors

3



cut the end of the each straw into a V.

5



blow into the medium straw and then the wide straw.

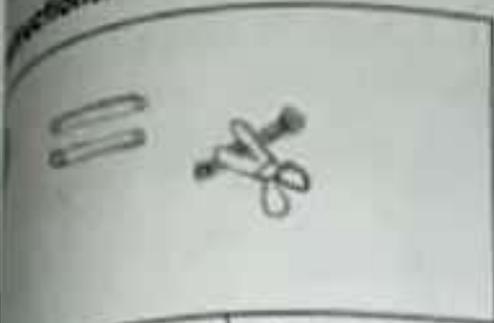
# 4 A new experiment

See Learning Book 4E

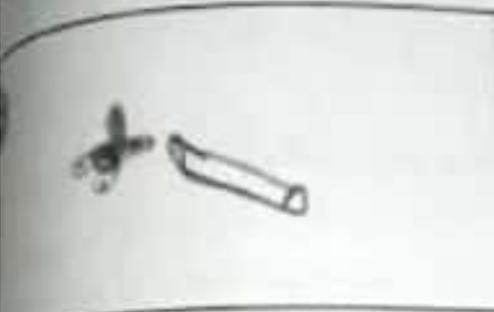
Experiment: Does the width of the straw change the noise made?

Use the gaps to write the instructions for your experiment.  
Draw a picture to show what happens at each stage.

Instructions:



Take the three straws  
cut them to half length.



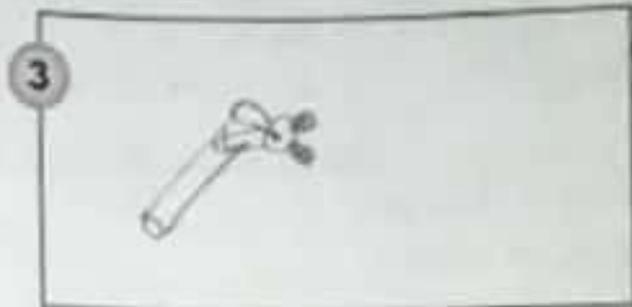
Push them first.



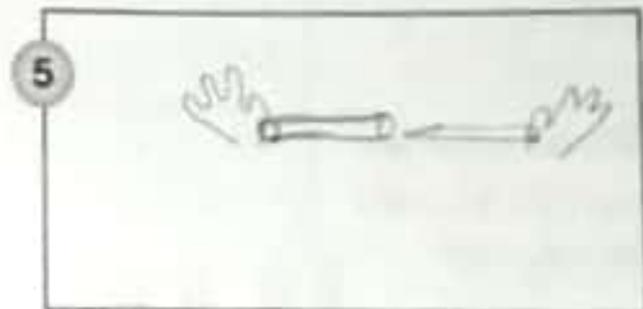
Push the V end of the  
straw straw in your mouth.  
Blow as hard as you can.

Materials needed:

- 1 narrow straw
- 1 thick long straw
- wide straw
- pair of half



cut the end of the each  
straw into a V.



Push into the medium  
straw and then the wide straw. ✓

Note/ down the different noises each straw makes.  
dot/ write

Make eye contact with the audience.  
 Stand up straight with your head up. Look confident and you will be.  
 Make sure you sound as if you care about your subject. If you don't care, the audience won't care either!

**1 Present**

Write down information for your persuasive presentation here.

My item: Mobile Phone

Question	Information	Picture ideas
1 Has it saved lives?	Yes, I call Parents if I heres	
2 Has it changed how or where people live?	Yes, it make the world as a small town.	
3 Has it helped businesses?	Yes, it make site easier.	
4 Would your life now be possible without it?	No, it would nit.	
5 Why is my item more important than the other items?	Because it has several uses.	

**Connect with the audience.** Talk directly to them!  
**Straight with your head up.** Look confident and you will convince them!  
**You sound as if you care about your subject.** If you don't care, the audience won't care either!

Information for your persuasive presentation here.  
Engines for car

+ /

	Information	Picture ideas
saved	Yes, it has in many ways	Injured people reach to hospital in right time.
changed where live?	Yes, it has-	You can move at any time and any where you want.
helped us?	yes, it has widely helped-	Selling cars and vehicles make lot of money.
your life possible it?	No, it wouldn't.	we are using our daily life engines cars - bike - busses
my item important other	It might save humans.	Patient car reach time to hospital, so he save his life.  Super

Can you remember?

Write five sentences using the science words in the box. You must use at least one of the words in each sentence.

- 1 We do experiments in science.
- 2 The car is an important invention.
- 3 There are many Arab scientists.
- 4 If you are sick you should take medicine.
- 5 We go to the laboratory in science class.

- experiment
- invention
- new
- scientist
- discover
- medicine
- laboratory

1 quarter past seven

2 quarter to twelve

3 four o'clock

4 half past seven

in forty five



1 thirty



punctuation and capital

### Answers

- 1 Draw a circle on the paper.
- 2 Carefully pour the oil into the jug.
- 3 Use the scissors to cut the straw.
- 4 Open the door for the visitor.



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رابط الدعوة

an ask permission.

## Lesson 7 Great scientists in history

### 1 Use of English

Add **who** or **which** to add the information to each sentence.

- 1 We liked the visitor who told us about science.
- 2 Omar went to the museum on the bus, which was very busy.
- 3 Meera read the book, which was about science.
- 4 He drove the car which went fastest.
- 5 They were the scientists who discovered the new bird.

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### 2 Talk

Ibn Nafis used his sense of touch to feel the blood pumping around his body. We can use all our senses to help us to understand the world around us.

Match the picture of the body part to the words that show what we can do to find information.

touch    see    smell    hear    taste



touch



see



hear



taste



smell

Dear Dr al Harthi.

### Answers

Learners' own answers.

#### Example:

Dear Dr al Harthi,  
 My family are all well, thank you. I hope you and your family are also well.  
 Ibn Nafis's book sounds very interesting.  
 Thank you for offering to send me a copy of the book. I would be very happy to read it.  
 I would like to invite you to visit my home as soon as you can come. We could spend many days talking about the book and its discoveries.  
 Yours sincerely,  
 Dr [name]

Yours sincerely,  
 Dr Yussuf

very happy to read it.  
 Would like to invite you  
 to visit my home as  
 soon as you can come.  
 We could spend many  
 days talking about the  
 book and its  
 discoveries.  
 Yours sincerely.

Dr (F)

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 file 5

أضف هنا

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the words in t  
 h bullet point v  
 his offer of th  
 ou for offering  
 f the book. I  
 n an invitatio  
 I would like to invite  
 • Use a farewell to end  
 Yours ...  
 • Sign your name.

1 Read

Read about three scientists from the UAE. What does each scientist study?

<b>Dr Amal Al Ghaferi</b>
<b>Works at:</b> Masdar Institute
<b>Works on:</b> Environment science - solar power and making or changing things so small they can only be seen with a microscope.
<b>Has studied in:</b> USA, UAE

<b>Dr Habiba Alsafar</b>
<b>Works at:</b> Khalifa University
<b>Works on:</b> Medicine science - finding out how some illness is passed on in families, particularly in the UAE.
<b>Has studied in:</b> USA, UK, Australia, UAE

<b>Dr Nabil Bastaki</b>
<b>Works at:</b> United Arab Emirates University
<b>Works on:</b> Engineering science – making robots that climb and walk that can go where it is difficult or dangerous for people to go.
<b>Has studied in:</b> UAE, USA

2 Write

Write a sentence about each scientist. Use linkers to add information.

- 1 Dr Amal Ghaferi works on environment science and making or changing things
- 2 Dr Habiba Alsafar has studied in USA, UK and in Australia as well
- 3 Dr Nabil Bastaki works on making robots that walk and climb where people can't go.

3 Imagine you are going to interview one of the scientists. Think of three questions you could ask them.

*Why is science important?*  
*What do you like about your job?*

**Speaking tip**

**Asking questions**

Think about what sort of information you want to get.

- place Use **where**: **Where** did you go to school?
- time Use **when**: **When** did you go to university?
- people Use **who**: **Who** helped you to study?
- reason Use **why**: **Why** is science important?
- action or objects Use **what**: **What** do you like about your job?

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## Lesson 10 Great scientists today

### 1 Read and write

Match the sentences to the correct scientist. Fill in the gaps.



Dr Shinya Yamanaka



Professor Gebisa Ejeta



Professor Omar Yaghi



Dr Anita Sengupta

### Matching information: Looking for key words

When you are trying to match information, look for key words.

### Answers

- 1 Professor Gebisa Ejeta; 2 Professor Omar Yaghi; 3 Dr Shinya Yamanaka;  
4 Dr Anita Sengupta; 5 Professor Gebisa Ejeta; 6 Dr Shinya Yamanaka;  
7 Dr Anita Sengupta; 8 Professor Omar Yaghi

- 2 One day, my work may give us fuel that doesn't hurt the planet.  
*Professor Gebisa Ejeta.*
- 3 I hope we can use the cells I found in my work to help people who are sick.  
*Dr Shinya Yamanaka.*
- 4 If we want to travel in space, we need to be able to bring a rocket down on other planets. I want to find out how.  
*Dr Anita Sengupta.*
- 5 I was born in ...
- 6 I won a Nobel ...
- 7 I work at NAS ...
- 8 I was born in ...

## الاجابات

أضبط هنا

الوصف

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رابط الدعوة

1 Read

Read about the scientists. Underline the facts. Circle the opinions.

Language tip

A **fact** is something that can be proved. Other people will agree it is true.

Mars is the fourth planet from the sun.

An **opinion** is something that someone believes. Other people may disagree whether it is true.

We should send astronauts to Mars.

1 I am Professor Walid. I study space. I am very clever and I have discovered three new stars. My students are sometimes lazy so I shout at them.

They think I am rude and grumpy because I don't speak politely, but they just don't work enough!



2 I am Professor Yasser. I study insects. I want to stop insects from eating the plants we grow for food. When the work is going well, I am the happiest man in the world. When things go wrong in the laboratory, though, it is terrible and I can be anxious and weepy. Solving scientific problems is the most important thing, so I worry a lot.



3 I am Professor Zainab. I study new medicines. I am a jolly person, but I'm hard working too. I am very tough and like to make my students work hard. I have already thought of many new medicines to help others, which have been bought by medicine companies.



2 Antonyms

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2 Antonyms

Match the opposites. Use your dictionary to help you.

rude	weak	polite	calm
clever	anxious	weepy	hard working
jolly	dry-eyed	tough	stupid
lazy		miserable	

Connections shown in the image:

- rude to polite
- clever to stupid
- jolly to miserable
- lazy to hard working
- weak to tough
- anxious to calm
- dry-eyed to weepy

**Adding information**

Choose the correct words in bold to fill the gaps and complete the paragraph.



Ibn Nafis was a scientist <sup>1</sup> **who/which** discovered how the heart and lungs work together. There were many famous scientists in history, like Ibn Nafis, <sup>2</sup> **who/which** wrote letters to pass on new ideas.

Now many scientists work in teams. They like to share ideas with other people <sup>3</sup> **who/which** understand their work. Most scientists now don't write letters, <sup>4</sup> **who/which** is a slow process. They prefer to send emails, <sup>5</sup> **who/which** pass information quickly.

**Write**

Write three facts and three opinions. Share them with a partner. Do you agree?