

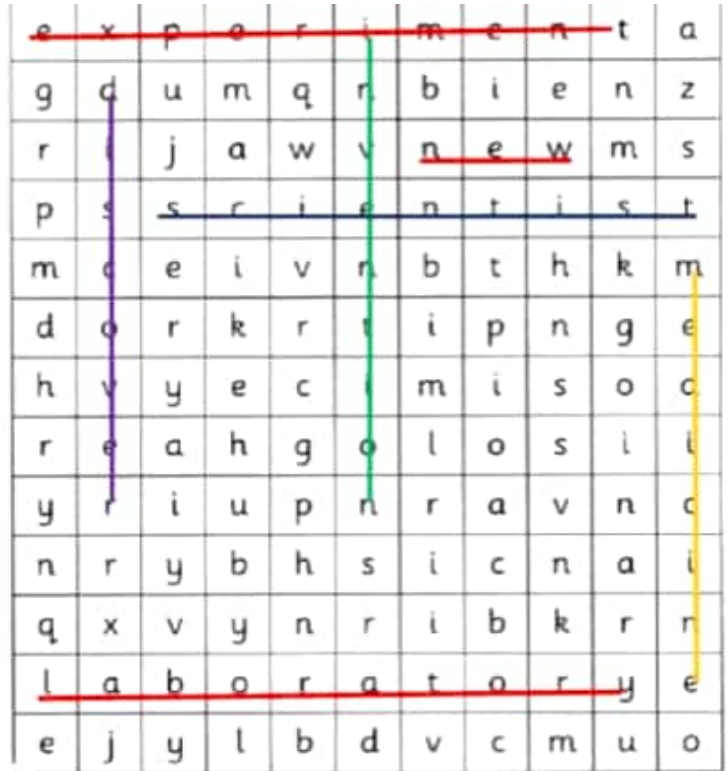
Lesson 1 Science



1 Vocabulary

Find and circle the words.

experiment
invention
new
scientist
discover
medicine
laboratory



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أضبط هنا ←

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 their second test on the computer.

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

At half past seven, all the testers eat breakfast.

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 | Straw 2 | Straw 3 |
|---------------|---------------|----------------|---------------|
| | Medium: _____ | Short: _____ | 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

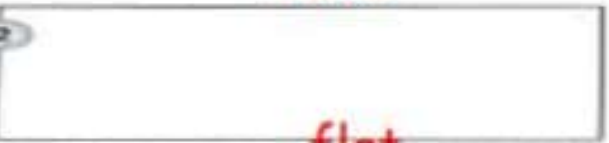
Lesson 4 A new experiment

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.



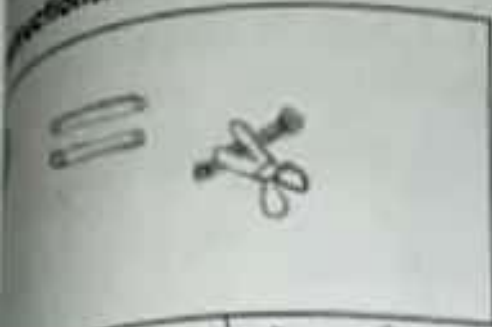
4 A new experiment

See Learning Book 4E

Question: 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:



Cut the three straws
to half length.



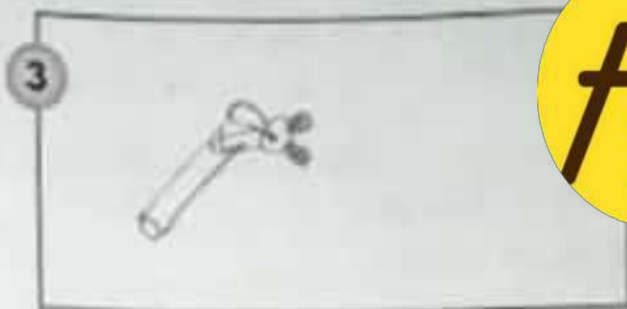
Push them first.



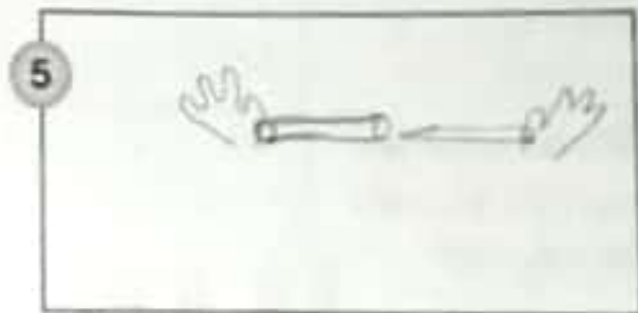
Blow the V end of the
straw straw in your mouth.
Blow as hard as you can.

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 there's | |
| 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 not. | |
| 5 Why is my item more important than the other items? | Because it has several uses. | |



Contact 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

file 5 + 1

| | 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



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.

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]



Handwritten student answer on lined paper:

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)

الإجابة

ملفات خامس وزاري قناة عامة

أضف هنا

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Use a farewell to end
Yours ...
Sign your name.

1 Read

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

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

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

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



2 Write

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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?

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.
3 I hope we can use the cells I found in my work to help people who are sick.
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.



الاجابات

أضغط هنا

الوصف

ملفات الصف الخامس منهج وزاري
دولة الامارات العربية المتحدة

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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 (red line)
 - weak to strong (red line)
 - clever to stupid (blue line)
 - jolly to miserable (purple line)
 - lazy to hard working (green line)
 - anxious to calm (yellow line)
 - dry-eyed to weepy (green line)
 - tough to weak (red line)

Adding information

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



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

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

Write

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