

Unit 4

Lessons 2-3-4

Student's Book pages 33-34-35

GRAMMAR: State and dynamic verbs

7 Read the sentences and circle the correct tense.

1 Science answers many questions we **are liking / like** to ask.

2 **Do you know / Are you knowing** that lightning is hotter than the Sun?

3 We **are seeing / see** lightning before we hear thunder.

4 At the moment, we **are doing / do** an exercise.

Answers

1 like

2 Do you know

3 see

4 are doing



8 Some of the following sentences are wrong. Put a tick next to the correct sentences, and correct the wrong sentences in your notebook.

1 I'm not sure they're knowing Samer.

2 Zeina forgot to turn the lights off before she left the office.

3 Do you know that our bodies are needing more oxygen when we do exercise?

4 Kareem is fixing his brother's bike at the moment.

5 He is wanting to be an archaeologist and discover hidden treasures.

6 I am not liking extreme sports because they are dangerous.

7 Scientists believe that if we save energy, we protect the environment.

Answers

1 I'm not sure they know Samer.

2

✓

3 Do you know that our bodies need more oxygen when we do exercise?

4

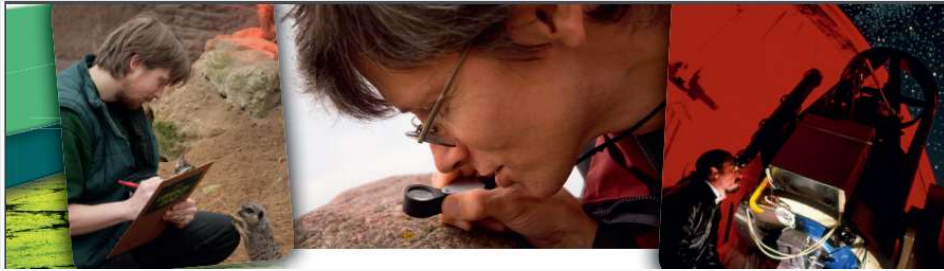
✓

5 He wants to be an archaeologist and discover hidden treasures.

6 I don't like extreme sports because they are dangerous.

7

✓



SPEAKING

1 In pairs, ask and answer the following questions using the correct verb forms. Use complete sentences.

1 Do you have an English dictionary?

2 What do you think of science?

3 Does Biology seem difficult?

4 What subjects do you like at school?

5 What languages do you know?

6 When do you feel happy?

Students' own answers

LISTENING

**2 Listen to an interview with a scientist.
Which area of science does he believe is
the most important today?**

Audioscript

Interviewer: Professor Allen. Can you tell us what scientists do?

Professor: Scientists study the world around us-from the tiny micro-organisms that live on Earth to distant unknown planets.

Interviewer: Which area of science do you think is the most important one today?

Professor: I'm an environmental scientist, so of course I think that environmental science is the most important! Today, there are a lot of environmental problems in the world, and scientists are trying to solve them. At the moment, I am working with some tiny green plants, which don't produce flowers when they grow. They live in rivers and in the sea and they grow in sunlight. We are carrying out experiments to grow huge numbers of these tiny plants in water. They are very important, because when they grow, they react to

sunlight and produce a liquid. We think that cars can use this liquid in the future.

Interviewer: I see now why so many people think that science is very exciting.

Answer

Environmental science

3 Listen to the interview again. Are the sentences true or false? Correct any sentences that are false.

1 Scientists study the world around us. *True*

2 Professor Allen is a zoologist.

3 Environmental scientists are trying to solve environmental problems.

4 Professor Allen is working with some huge green plants.

5 These plants produce flowers when they grow.

6 Scientists think that their research is important for cars in the future.

Answers

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1 True

2 False. Professor Allen is an environmental scientist.

3 True

4 False. Professor Allen is working with some tiny green plants.

5 False. These plants produce a liquid when they grow.

6 True

4 Complete the summary about the interview using the Present Simple or the Present Continuous form of the verbs in the box.

Live	carry out	produce	be	think
	react	work	grow	

Professor Allen (1) *is* an environmental scientist. He (2)..... on a research project with tiny green plants. These tiny plants (3)..... in rivers and in the sea and they (4)..... to sunlight. The

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scientists (5)..... experiments with these plants. They (6)..... them in huge numbers. When the plants grow, they (7)..... a liquid. Scientists (8)..... that cars can use this liquid in the future.

Answers

1 is

2 is working

3 live

4 live

5 are carrying out

6 are growing

7 produce

8 think

SPEAKING

5 Do you think that science is exciting? Which area of science do you think is the most important? Discuss with your partner. Give reasons.

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A: I think that science is exciting because you can have surprising results when you do experiments.

B: I think that Medicine is the most important area of science because it helps people when they are ill.

Answers

Students' own answers

QUOTATION

Read the quotation. Do you agree with it? Why/Why not? Translate the quotation into Arabic

Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning.

Albert Einstein, Scientist (1879 CE–1955 CE)

تعلم من الأمس، عش من أجل اليوم، وتطلع إلى الغد، فإن الأمر المهم هو ألا تتوقف عن التساؤل.

VOCABULARY: Science and scientists

6 Complete the sentences using the correct nouns or sentences.

1 I enjoy studying animals and their different characteristics. I want to be a(n)_____.

2 I like _____. I want to be a meteorologist.

3 I love studying and reading about different kinds of rocks and stones. I want to be a(n)_____.

4 I am interested in _____. I want to be a botanist.

5 I enjoy observing stars and studying everything outside Earth's atmosphere. I want to be a(n)_____.

6 I like _____. I want to be an ecologist.

Answers

1 zoologist

2 studying the weather

3 geologist

4 studying plants

5 astronomer

6 studying the environment

SPEAKING

7 Work in pairs. Take it in turns to say what you are working on. Your partner says what kind of scientist you are.

A: I am carrying out research into what whales eat.

B: I think you are a zoologist.

Students' own answers

READING

8 Read about a famous scientist. What did he discover?

Ibn Al Haitham was a brilliant scientist who wrote many papers on Physics, Astronomy and Mathematics. He was born in the year 965 CE and died in 1039 CE.

He carried out experiments with light, and the results of which were written down and became his famous book, the *Book of Optics*. The science we now know as 'optics' was born. Ancient Greek scholars had tried to explain how human beings see, but they had not done any experiments to prove their hypotheses. Ibn Al Haitham was able to prove for the first time in his experiments that people can see because light reflects off things around us and into the eye.

Ibn Al Haitham also developed the first camera obscura. In a dark room of his house, he allowed light to come into the room through a tiny hole, and an upside-down picture of the scene outside appeared on the wall opposite. This experiment established the knowledge on which the first cameras were made.

Answer

He founded the science of 'optics'. He carried out experiments with light. He developed the first camera obscura.

COMPREHENSION

9 Read the text again and answer the questions.

1 What is the book that Ibn Al Haitham wrote called? Why do you think he wrote it?

2 What is the name of the science that he discovered?

3 How was Ibn Al Haitham different from Ancient Greek scholars?

4 What did Ibn Al Haitham discover about the scene behind the camera?

Answers

1 It is called the Book of Optics. He wrote it to try to explain how human beings see, since it was unknown before.

2 Optics

3 He carried out experiments to prove his hypothesis.

4 He discovered that images appear upside-down.

Research box

Who invented the digital camera, and when?

Steven Sasson invented the digital camera in 1975.

Unit 4

1 think	I..... studying Science at university is my best option.	I..... about studying Science at university.
2 look	He..... very healthy!	He..... at a hair through the microscope.
3 haveyou..... a car, or should I pick you up?	We..... dinner with all the family this evening.
4 enjoy	I..... studying in the garden whenever I have exams.	Don't turn off the TV! I..... this film.

Lessons 2-3-4

Activity Book pages 24-25

GRAMMAR

Complete the sentences with the correct form of the verbs in the first column.

3 Complete the telephone conversation with the correct form of the verbs in brackets.

A: Hello Tareq. What are you doing?

B: Hi Ramzi. I (1)..... (study) for my entrance exam next week.

A: (2)..... you..... (plan) on applying to the Jordan University of Science and Technology?

B: Yes, I am. I (3)..... (want) to become a science teacher, and they (4)..... (have) one of the best programmes in the country.

A: Wow, that's amazing! (5)..... you..... (think) it is possible to get accepted?

B: Of course it is! Where there's a will, there's a way!

4 Complete the table with the verbs from the box. Then, choose two verbs from each column to write your own sentences.

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State	State and	Dvynamic
Noun	Noun	Adjective
(person)	(subject)	

Think run know mean taste study
love eat have

I know how much you enjoy school because I do too!

VOCABULARY

5 Solve these riddles to find out the words related to science.

Amal: I study and forecast the weather conditions. Who am I?

Randa: I don't only work in a laboratory. I study the outer layer of the earth. Who am I?

Muneer: I use a telescope to observe stars and outer space. Who am I?

Jaber: I use the microscope a lot to observe and study the organs of animals. Who am I?

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1 physician Physicist*	physics	physical
2		
3		
4		
5		

READING

6 Read the text and list all the words for people connected with science. Then complete the table.

Mohammad Ibn Zakariya Al Razi (865 CE–925 CE) was a physician, a chemist, musician and mathematician. He was born in Rayy, near the city of Tehran, Iran. He worked at the Royal Hospital at Rayy.

Al Razi was also a writer of many books on medical and scientific subjects. Al Mansuri and Al Hawi, his reviews of medicine, were translated into several languages.

Al Razi was also a researcher. In chemistry, he was the first to produce sulfuric acid. As a biologist, Al Razi developed an early system

of classifying substances into plants, animals and minerals.

For all these reasons, Al Razi is known as a very important scientist in history.

* a physician: a doctor

a physicist: a scientist who studies physics

Page 24, Exercise 2

1 think, am thinking

2 looks, is looking

3 Do / have, are having

4 enjoy, am enjoying

Page 24, Exercise 3

1 am studying

2 Are / planning

3 want

4 have

5 Do / think

Page 25, Exercise 4

State	State and Dynamic	Dynamic
<i>Know, mean, love</i>	<i>Think, taste, have</i>	<i>Run, study, eat</i>

Example answers:

I know how much you enjoy school because I do too!

I think I know the answer to your question.
(state)

I run for 30 minutes every day before school.
(dynamic)

Page 25, Exercise 5

Muneer: astronomer;

Jaber: biologist;

Amal: meteorologist;

Randa: geologist

Page 25, Exercise 6

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Noun (person)	Noun (subject)	Adjective
1 physician Physicist*	physics	physical
2 chemist	chemistry	Chemical
3 mathematician	mathematics	Mathematical
4 biologist	biology	Biological
5 scientist	science	scientific