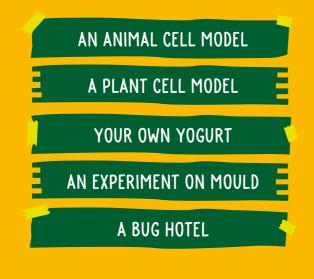
Living things

ANSWER KEY

С	My Science box	
0	• What do you know about living things?	
Ν	What are living things?	
т	What is nutrition?	
	How do living things reproduce?	
E	How do living things sense their surroundings?	
N	What are cells?	
т	What are animal cells like?	
s	What are plant cells like?	
5	 How are animal cells and plant cells different?	
	What are specialised cells?	
	How are cells organised?	
	What are animals?	
	What are plants?	
	What are fungi?	
	What are protoctists?	
	What are bacteria?	
	What are viruses?	
	How are living things different?	
	How do we observe living things?	
	• How do we observe living things:	
	I can improve biodiversity	
	Game time!	
	My concept map	
and the second	• Summary	
	Check your progress!	
	My key words	
and the second second		
	• Cut-outs	
100		
2 0	Audio Cut-outs STEAM Digital Sustainable	
Standing &	activity resource Development Goals	
and a second		
Sales Cale of		
		Ī

MY SCIENCE BOX

You will make and do many exciting things!



Make a Science box to keep your work in.

- FIND A LARGE CARDBOARD BOX.
 - · COVER IT WITH COLOURED PAPER.
- WRITE MY SCIENCE BOX AND YOUR NAME ON THE SIDE.

Share your collection.

This is a picture of my yogurt.

This is my animal cell model.

This is a picture of the mould.

This is my plant cell model.

MY SCIENCE BOX

> This is my bug hotel.

WHAT DO YOU KNOW ABOUT LIVING THINGS ?



Look at the photos and answer the questions.

WHAT DO LIVING THINGS **GET FROM FOOD?**



Living things get <u>energy from food</u>.



Animals feed ____ on other living things

HOW DO BIRDS REPRODUCE?



Birds lay eggs that hatch

HOW DO SEED PLANTS REPRODUCE?



Seed plants produce <u>seeds</u>

HOW DO ANIMALS REACT **TO THEIR SURROUNDINGS?**



Animals use <u>their sense organs</u>

DO FROGS HAVE A BACKBONE?

Frogs_

have a backbone

WHAT DO YOU KNOW ABOUT LIVING THINGS

Complete the first two columns of the KWL chart. (Model answer (M. A.)





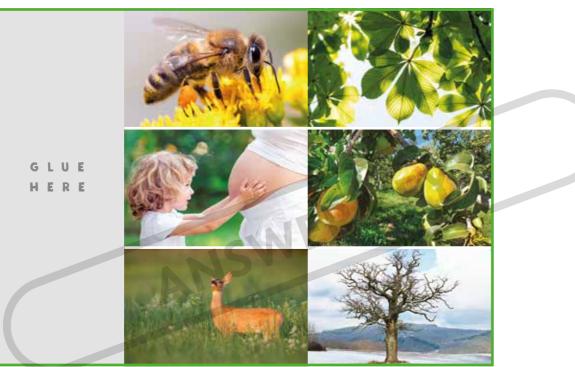
What are living things?



Listen and complete the flap book about life processes. (See page 29.)

All living things carry out three basic **life processes**:

- nutrition
- reproduction
- sensitivity



2

Are robots living things? Why or why not? Think about it and write your answers.



• Do robots get energy by eating?

No, they do not eat food. They get energy from electricity.

• Do robots respond to their environment?

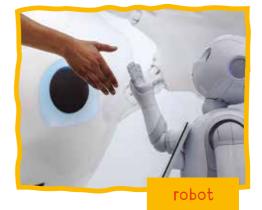
Yes, robots can detect and respond to changes in their environment.

• Can robots reproduce?

Robots cannot reproduce.

• Are robots living things?

<u>Robots are not living things because they do not carry out</u> the three life processes.



What is nutrition?

Match and make sentences about what animals eat.



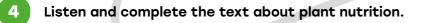
Nutrition is the process by which living things get energy and raw materials from food.

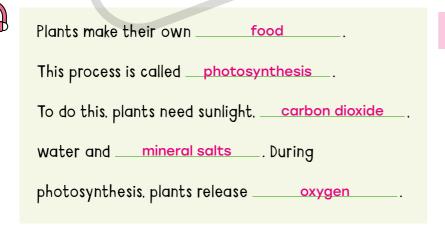
But they do this in different ways.

- Animals feed on other living things.
- Plants make their own food.

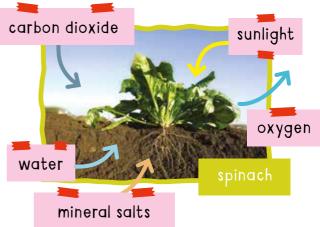


	What do animals eat?			
HERBIVORES	mostly eat the meat or flesh of other animals. Examples include bears, robins and ants.			
CARNIVORES	eat plants, the flesh of other animals, Examples include cows, rabbits algae and fungi. and grasshoppers.			
OMNIVORES	mostly eat plants, grass, leaves, fruits, nuts or roots. Examples include cats, sharks, eagles and spiders.			





PHOTOSYNTHESIS





Are humans omnivores, herbivores or carnivores? Why? (

? (M. A.

Human beings are omnivores because we eat plants, the flesh of other animals, algae and fungi.

For example, we eat eggs, fruits, fish and mushrooms.



CITICAL

Biodiversity is the variety of living things on Earth. There are millions of different species of living things in the world.

Biodiversity is important to humans for many different reasons. It is our main source of food and raw materials.

However, many species are disappearing as a result of human activities, such as deforestation, pesticides, pollution and climate change.





Jm

Watch the video. Choose and write some benefits we get from biodiversity. (M. A.



Why is biodiversity important?

The variety of living things makes ecosystems strong and healthy. We get many benefits from them.

- Clean water for us to drink and food to eat.
- Pure air for us to breathe.
- <u>A regular climate, with fewer extreme</u> weather phenomena.
- <u>Resources and raw materials for</u> construction, clothing or paper.

MY SCIENCE BOX

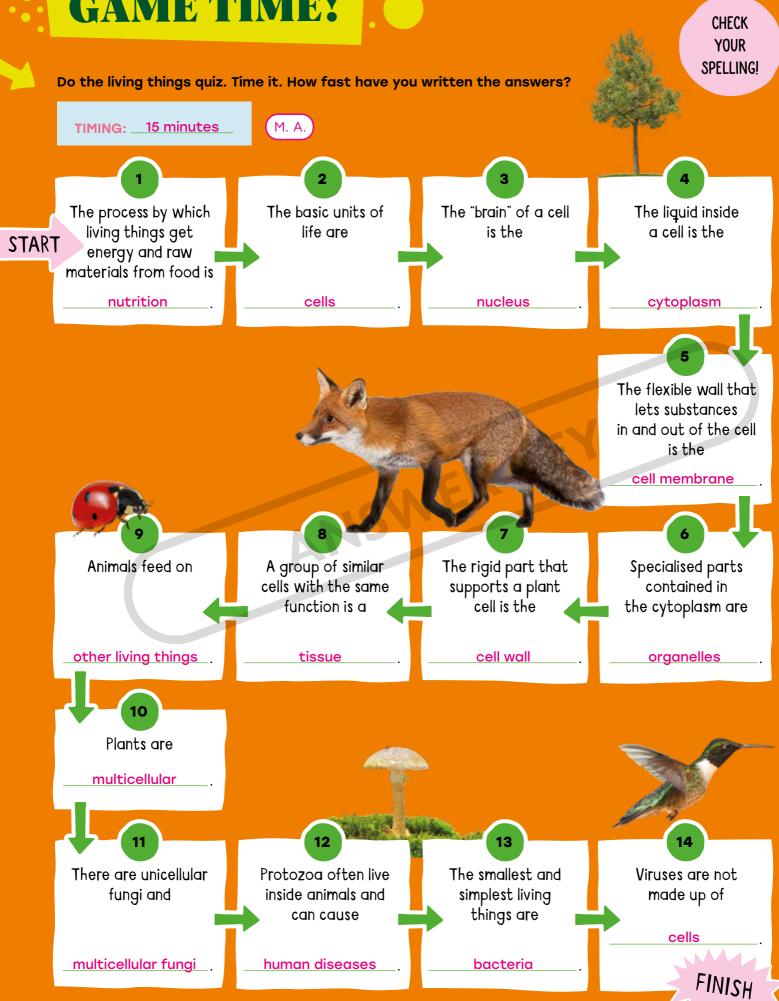
A BUG HOTEL O. A.)

- Make a house for important invertebrates like bees.
- Gather bamboo canes and cut them to the same lengths.
- Tie string around them to hang them.
- Hang the bug home in a warm spot.
- Wait to see who comes to visit and take a photo for your Science box.



BOXI

GAME TIME!





COMPLETE YOUR KWL CHART ON PAGE 4

Complete the summary. Listen and check your answers.

<u>(22222222222222222222</u>)

All organisms are made up of **cells**. Cells are the basic units of life.

Multicellular living things are made up of thousands of millions of cells. Unicellular living things are made up of just one

cell



In multicellular organisms, cells are organised into **levels**. They work together to carry out specialised functions. The levels are cells, tissues, organs, organ systems and

organism

SUMMARY

All living things are classified into **five** groups, called **kingdoms**: animals, plants, fungi, protoctists and bacteria.

Animals are multicellular organisms. They feed on other living things and they are able to move

around

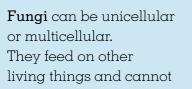
Plants are also multicellular organisms. They make their own food through

photosynthesis

Bacteria are unicellular. They are the smallest and simplest

living things





move around



Protoctists can be unicellular or multicellular. Some protoctists, such as algae, can make their own

food



Viruses are not considered living things. They can only reproduce inside other living things.

Check your progress!

Do the multiple-choice test.

...............

1. All cells have ...

- a. a membrane, a cell wall and a nucleus.
- **b.** a membrane, cytoplasm, organelles and a nucleus.
- c. cytoplasm, a cell wall, chloroplasts and organelles.

..............

3. These are all multicellular living things:

- a, animals, plants and fungi with mushrooms.
- **b.** animals, plants and yeast.
- c. animals, plants and bacteria.

..........

2. A tissue is a group of...

- a. similar cells with the same function.
- b. organs with related functions, working together.
- c. similar cells with different functions.

..........

4. Protoctists consist of...

a. protozoa and bacteria.

Answer key: 1. b 2. a 3. a 4

Nearly

Not

- b. viruses and bacteria.
- c.) protozoa and algae.

SCORE 1 POINT FOR EACH CORRECT ANSWER!

How did you score?

M. A.

How is your progress? Tick. (O. A.

MY SCIENCE BOX

	ies	there	yet
I can distinguish between animal cells and plant cells.			
I can describe the levels of organisation of cells.			
I can name some specialised cells in the human body.			
I can classify organisms into the five kingdoms.			
I understand why biodiversity is important to humans.			
I do my best in my notebook.			

My favourite piece of work is my own yogurt



MY LANGUAGE

MY LANGUAGE



ANNEX: AUDIO TRANSCRIPTS

Page 5, activity 1

All living things carry out three basic life processes: nutrition, reproduction and sensitivity.

- Nutrition is the process by which living things get energy and raw materials from food.
- Reproduction is the process by which living things produce new living things similar to themselves.
- Sensitivity is the process by which ANSWERKEY living things detect and respond to changes in the environment.

Page 6, activity 4

Plants make their own food.

This process is called photosynthesis.

To do this, they need sunlight, carbon dioxide, water and mineral salts.

During photosynthesis, plants release oxygen.

Page 7, activity 7

Plants reproduce in different ways.

In most plants, such as the orange tree, sexual reproduction takes place in the flowers. Pollen grains have to be transferred from one flower to another. Then flowers transform into fruits. These fruits have seeds that fall to the ground. The seeds germinate and new plants grow.

Other plants use parts of themselves to produce an identical version. In asexual reproduction, only one plant is involved. There are different types of asexual reproduction in plants.

For example, strawberries have growing stems that grow horizontally above the ground. New roots and stems grow along the horizontal stem and form new plants.