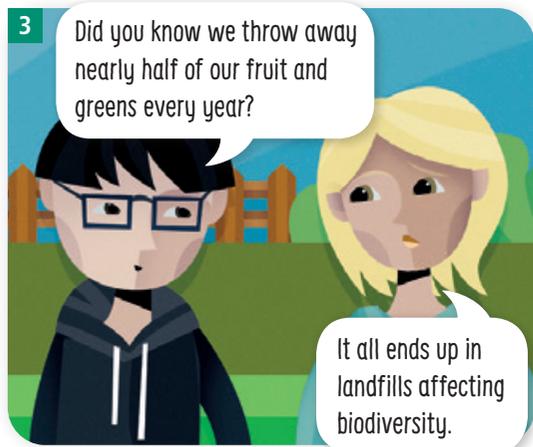
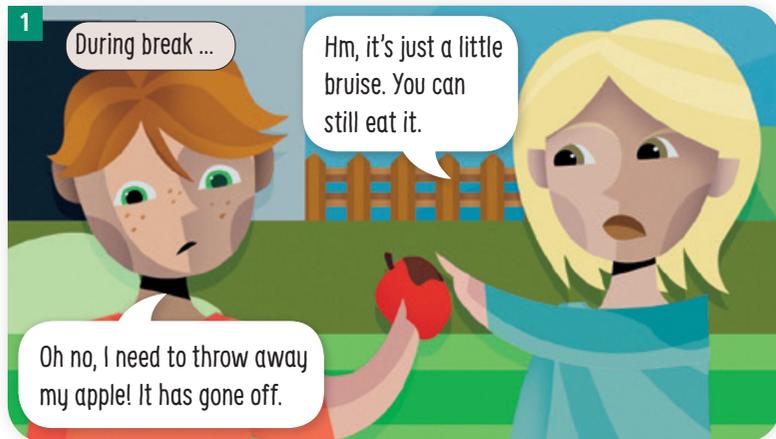


ECOSYSTEMS AND PEOPLE

STORY TIME

🔊 Read and listen to part 3 of the story *Care for the planet*.



ABOUT THE STORY

Read and answer.

- 1 How does Matt feel about the impact his actions have on the environment?
- 2 What things can make you feel bad when you do or say certain things?
- 3 What can you say to a friend when they are feeling bad about something they said or did?



READ THE WORLD

Read the text on animal cruelty.

STOP ANIMAL CRUELTY

Animal cruelty occurs when animals are neglected, abused, and go without food and shelter for a long time. It can be in zoos, circuses, on factory farms, at home and when visiting a new place.

Sometimes puppies which were given as Christmas gifts are abandoned in the streets or forests.

In places of entertainment, like zoos, aquariums and circuses, wild animals live in cages. They are often forced to perform tricks for people to watch. In some factory farms, domestic animals live in confined places. And, in tourism, some travel agencies offer wildlife experiences such as holding sea turtles, riding elephants or camels, or taking selfies with wild animals.

Wild animals need to live in their natural habitat to survive. Their natural habitat provide food, water, shelter, and a safe environment to reproduce and avoid disease.

However, some zoos and aquariums can provide a safe place with the right conditions for endangered animals. Animals like the Arabian Oryx and the Eastern Bongo have been saved from extinction thanks to conservation efforts by zoos and wildlife organisations.

The prevention of animal cruelty starts with you! Be a responsible pet owner. Report any animal abuse you observe in your area. Get involved with organisations that protect animals.

- 1 What is animal cruelty? What is an example of animal cruelty?
- 2 How do some zoos and aquariums help wild animals?
- 3 How does animal cruelty affect our planet's biodiversity?

DISCUSS WHAT WE KNOW

Use the *Think-Pair-Share* thinking routine to answer these questions about the unit.



Do you think humans affect ecosystems?

What can you do to protect the environment?

What is a global warming?

Changing our ecosystems

Activities such as deforestation, habitat destruction and pollution can affect and be very harmful to environment.

The **loss of habitat** is the most common way that humans damage the environment. It can lead to many species become endangered or even extinct.

1 🗣️ Imagine you go on a trip to the country with your family. What can you do to protect the local biodiversity? Tell a partner.

air pollution:

Pollutants come from harmful emissions.

ice cap melting:

Sea levels rise as glaciers melt, increasing coastal erosion.

overfishing:

Catching too many fish at once can reduce the fish population.

burning fossil fuels:

It releases large quantities of carbon dioxide that causes global warming.

deforestation:

The cutting down of forests to use land for another purpose.

water pollution:

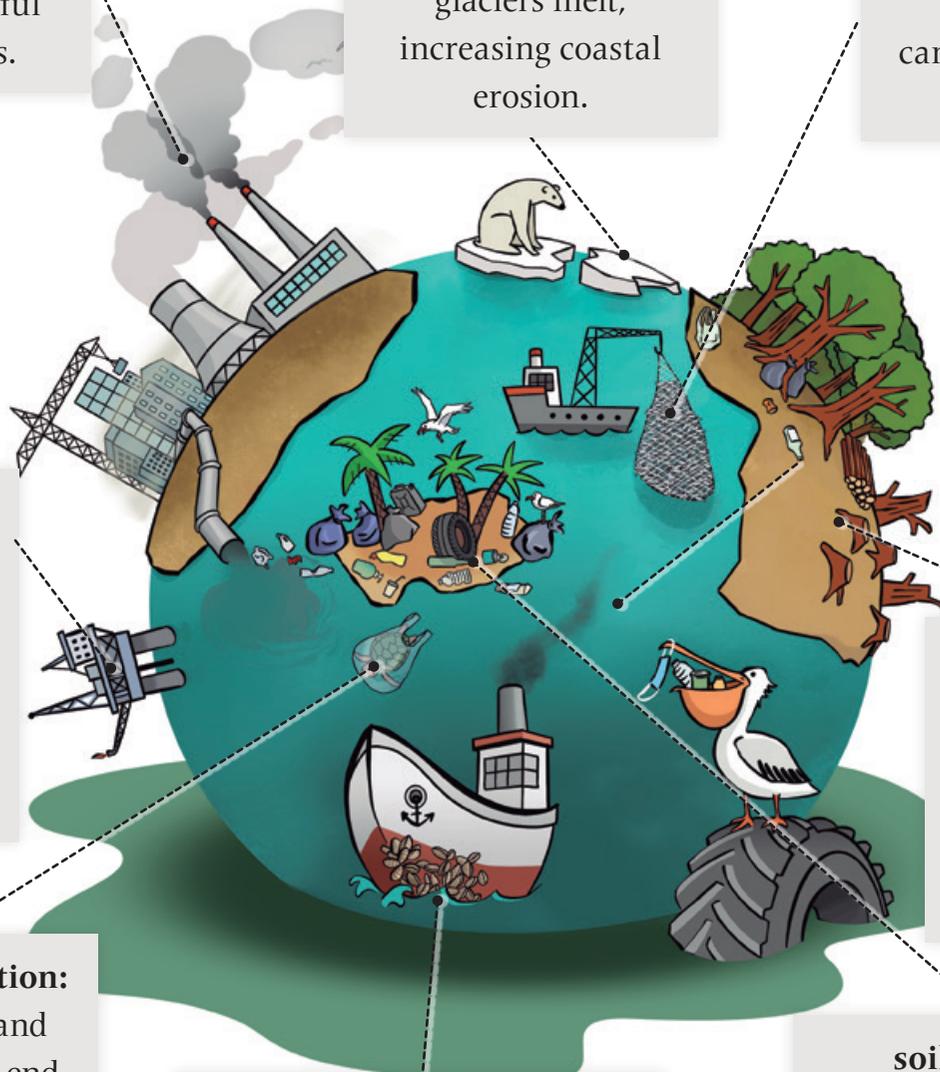
Pollutants and plastics that end up in rivers and lakes threaten marine life.

invasive species:

They invade new habitats and impact them negatively.

soil pollution:

The disposal of toxic waste in landfills causes soil contamination.



Green living



- 1 Listen to an artist working with recycled materials. What is eco-conscious art?

To protect the environment, we must make good use of our planet's natural resources, recycle and upcycle more.

▶ Solar, wind and water are renewable energy sources that are good for our planet. We call this type of renewable resources **green energy**. Renewable green energy emits no greenhouse gases and does no harm to the environment.

reforestation:

Planting trees in a forest where the trees were cut down.

wind power:

Wind turbines produce electricity directly from the wind.

solar power:

Using solar power generates electricity directly from sunlight.

electric vehicles:

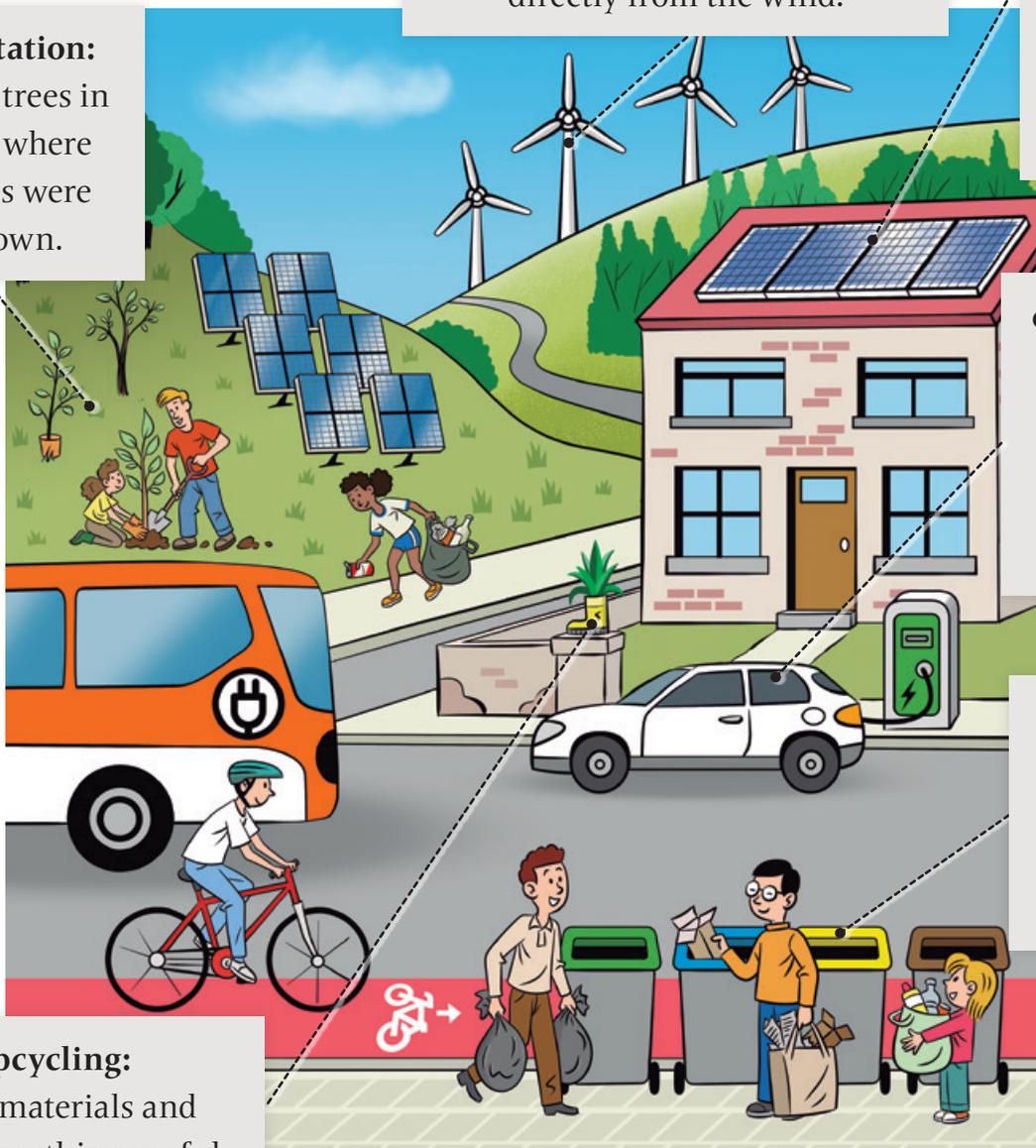
They use rechargeable batteries instead of gasoline for power.

recycling:

Separate your recyclables and recycle them into the correct bin.

upcycling:

Reuse materials and create something useful.



Preserving our ecosystems

SDG

It is essential that we have water, food and land to live. However, we must do so responsibly and respect the environment.

Sustainable development is essential for our planet and its ecosystems.

What we can do

As individuals and as a world community, we can:

- use natural resources carefully and allow them time to regenerate.
- build sustainable housing and create more green areas to make city life healthier.
- adopt rules and regulations about urban noise and light pollution.
- restrict the spread of invasive species and harmful pollutants.
- raise awareness of the need to reduce consumption of water and energy.
- design an educational curriculum for schools to teach sustainability.

- 1  Listen to a podcast about Earth Day. Where and when did it start?
- 2  Take turns to describe your ideal green city to a partner.

In my city, there are Every house has People travel by

Protecting our planet

There are many ways we can protect our planet.

Saving our planet starts with you – act responsibly!



Hang your laundry on a clothesline.



Use cotton swabs with paper sticks.



Turn off the tap when you brush your teeth.



Buy rechargeable batteries.



Wrap your gifts in recycled materials.



Borrow books at your local library.



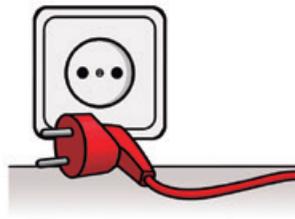
Compost food scraps.



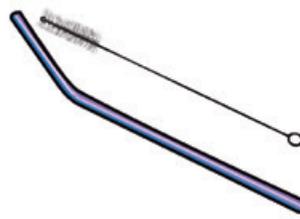
Use reusable bags.



Unplug your electrical devices when you are not using them.



Turn off the lights when you leave a room.



Use reusable straws for your drinks.



Use a reusable mug.



Bring a reusable container for restaurant leftovers.



Buy local produce.



Plant pollinator-friendly plants.



Pick after your pets.



Adopt an animal.
Do not buy.



Walk to school.



Donate clothes, toys and books.



Volunteer in clean-ups and planting trees.



LANGUAGE CORNER



Time to read

- 1 In your notebook, complete the text with *who*, *where* and *which*. You must use some words more than once.

I'm from a family of animal lovers. Out of my whole family, my grandma and dad are the ones **a** love animals most. My grandma even knows more about animals than my dad **b** works in a zoo! One of the animals **c** she loves is the Hyrax, also known as the dassie. They live all over Africa and the Middle East. In East Africa, **d** my grandma lived when she was a child, you can find the rock hyrax living in cliffs and mountainside. They might look like mice or rabbits, **e** are rodents, but they are more closely related to elephants!



READING TIP

Is the sentence about a thing, person or place?



Time to write

- 1 Look at the picture. Answer the questions in your notebook.

- a Which days does Amelia have to prepare for school?
- b Which days does she have to go and visit someone?
- c What doesn't Amelia have to do on Saturday?
- d What do her and her mum have to do?



Now, think about yourself and answer.

- a What do you have to do after school?
- b Is there a time when you don't have to do anything?

WRITING TIP

Remember the verb must agree with the subject.



SCIENCE WORKSHOP

REDUCING YOUR ECOLOGICAL FOOTPRINT

You are going to explore ways to reduce your carbon footprint and help the environment.

Observe

In small groups, look at the photo and identify the daily activities that could contribute to such an effect to the environment.



Research

Your carbon footprint is the amount of greenhouse gases. Before you start exploring ways of how to reduce it, you need to first calculate your footprint. Use the footprint quiz to find out how you are doing.

Make

Use your score to draw your own footprint. Use some coloured card and make an outline of your foot using a pencil. On the top part of the footprint write your carbon footprint score. Below it, draw four boxes and add *home*, *transport*, *personal habits* and *recycling*. In each box write the new actions you are going to take to reduce your carbon footprint. Use coloured crayons to colour to the boxes. You can use the picture of the foot outline as a guide.

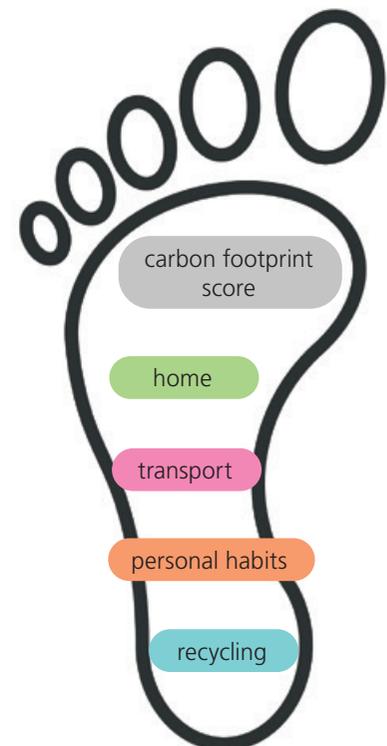
Share

Share your score with your classmates. Do you have any actions in common for reducing your carbon footprint? Do you think it will be easy to make changes in your daily activities?



You will need:

- pencil and rubber
- coloured card
- coloured crayons
- downloadable footprint quiz



PUBLIC SPEAKING

Don't move about or you will distract your audience. Stand up straight and be confident.

UNIT ACTIVITIES

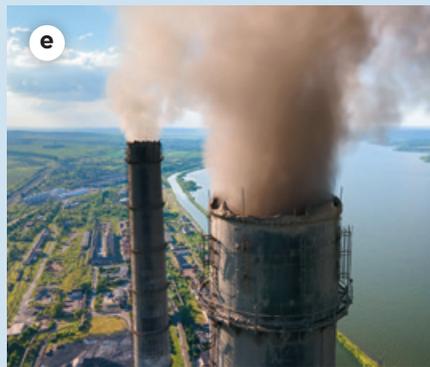
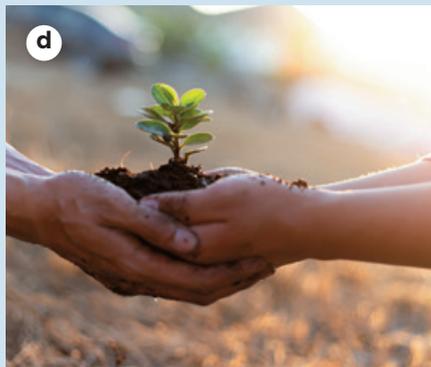
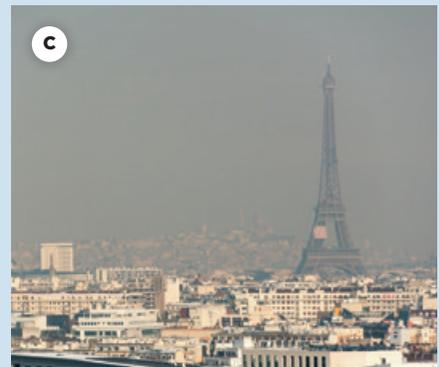
Changing our ecosystems

1 Complete the definitions in your notebook. Use the words in the box. There are two extra words.

invasive	melting	fossil	deforestation
damage	overfishing	loss	upcycling

- a The of habitat can lead to the extinction of many species.
- b is the process of cutting down a forest for another purpose.
- c The burning of fuels releases large quantities of carbon dioxide.
- d Catching too many fish at once is called
- e species are non-native species that invade new habitats and negatively impact them.
- f The of ice caps causes sea levels to rise and increase coastal erosion.

2 Label the photos about human activity in your notebook. Do all examples show harmful human activity? Explain in your own words.



3 Listen to some interesting facts about recycling. Write two facts in your notebook.



Green living

4 Match the sentence halves in your notebook.

- | | |
|--|--|
| a A wind turbine produces ... | 1 ... greenhouse gases and does no harm to the environment. |
| b Renewable green energy does not emit ... | 2 ... batteries instead of gasoline for power. |
| c Electric vehicles use rechargeable ... | 3 ... can produce electricity. |
| d We can use solar power to generate ... | 4 ... electricity and heat buildings directly from sunlight. |
| e Waterpower from moving water such as rivers or ocean tides ... | 5 ... electricity, or wind power, directly from the wind. |

5 Look at the photo. In your notebook, write the renewable energy sources you see. Why is using them important for our ecosystems?



Preserving our ecosystems

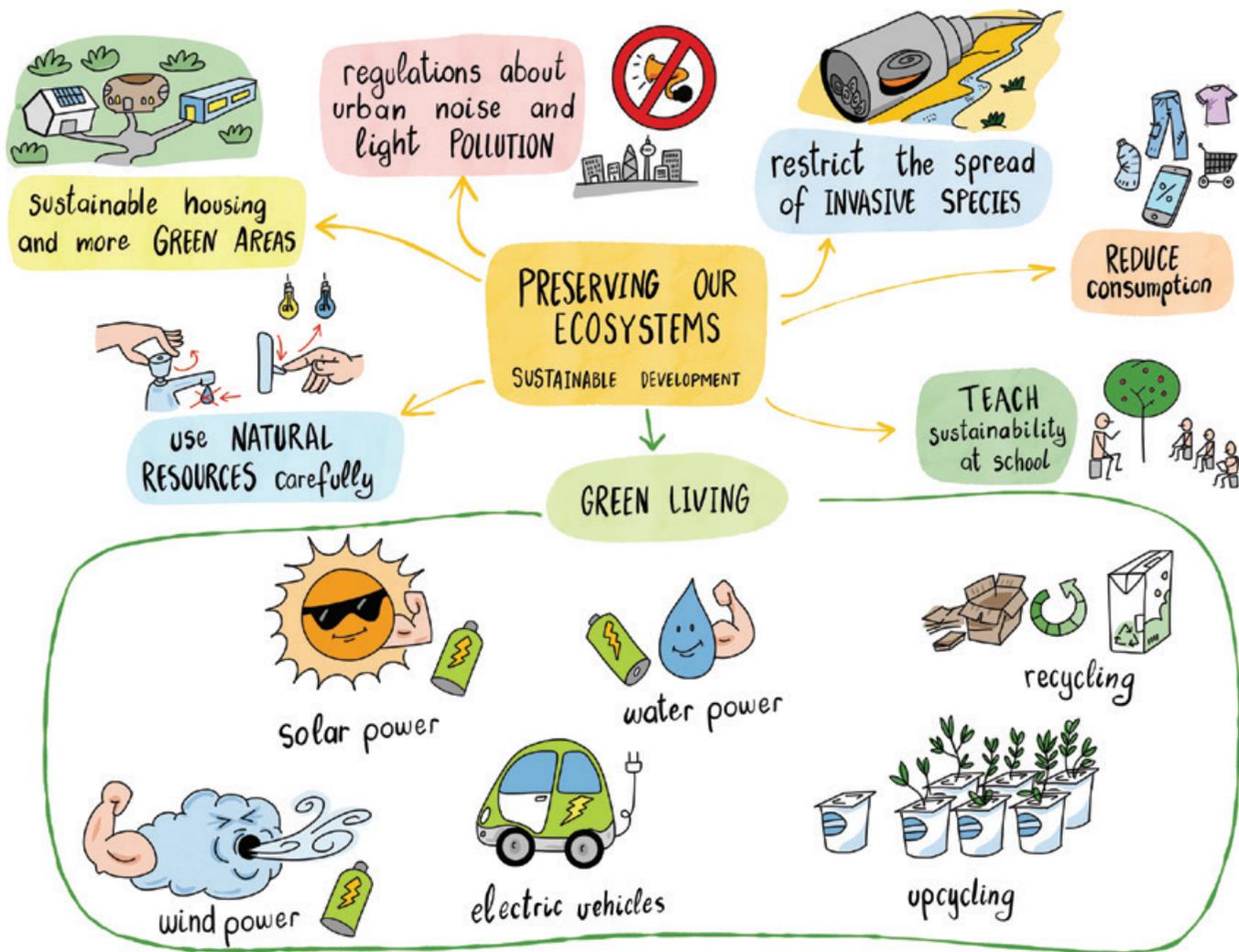
6 Read and decide if the sentences are true or false. Correct the false ones in your notebook.

- Our planet has sufficient natural resources, and we don't need to use them carefully.
- The world communities need to encourage the spread of invasive species.
- Urban noise and light pollution need to be regulated.
- It is important we design an educational curriculum to teach suitability at schools.
- Use plastic bags to pick after your pet when you go for a walk.
- Buying local produce helps reduce pollution for transporting goods.

7 Think about what you learnt about how human activity affects ecosystems. Use the *Headline* thinking routine to write a headline that summarises its essence.



VISUAL SUMMARY

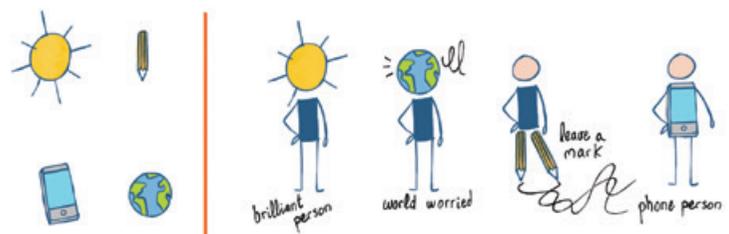


TIPS + TRICKS

Develop characters using a variety of objects combined with their bodies.

- Choose objects based on their shape or function.
- The objects you use will help you visualise your character's traits.

MIX OBJECTS AND HUMAN BODY TO CREATE CHARACTERS





UNIT REVIEW

1 Which of these human activities are harmful to the ecosystems? Answer in your notebook and say why.

- upcycling
- deforestation
- use of solar power
- overfishing
- burning of fossil fuels
- recycling
- building sustainable housing
- creating more green areas

2 Label the photos in your notebook. Write a sentence about each one.



3 In your notebook, complete the sentences with the correct word.

- a Wind power / Recycling is type of green energy.
- b Deforestation / Plastic pollution threatens marine life.
- c The burning / cooling of fossil fuels produce greenhouse gases.
- d The loss of habitat / forests is the most common way that humans damage the environment.
- e Toxins / Pollutants come from harmful emissions.
- f The size of the fish population and reproduction is affected by upcycling / overfishing.

4 Think about the effects of habitat destruction on animals and plants. What could happen to people if certain plant and animal species become extinct? Answer in your notebook.

5 Write one example of each of the following choices for a healthier planet.

- a Choose recyclable materials.
- b Volunteer.
- c Save water.
- d Shop wisely.

VISUAL CHALLENGE

Use the objects on the right to create different characters. Choose a trait you want to highlight in the object and incorporate it into the figure. Give each character a name. Finally, describe in two or three lines the most important characteristics of the character.

