

Climate and the environment

Lessons 1–2 What's the weather like?

- 1 Look at this map of the UAE and the weather symbols. Complete the table with the names of cities.



3 Complete each paragraph using the adjectives in the box.

• clear • high • sunny • bright

Tomorrow there will be ¹ clear skies, as well as ² bright sunshine in the early part of the day. During the day it will be mostly ³ sunny, although it may get a little cloudy towards the afternoon. Temperatures will be as ⁴ high as 25°C during the warmest part of the day.

• good • heavy • high • icy

In the north, take care on the roads tomorrow morning, because conditions could be ⁵ icy. There's a ⁶ good chance of snow, particularly over ⁷ high ground (above 2,000 metres). In the afternoon, temperatures will rise and we'll see quite a lot of rain. Some of it could be ⁸ heavy.

4 How many collocations for weather conditions can you make?

light	conditions	icy	heavy	storm	skies
clear	strong	snow	rain	winds	showers

light rain / heavy rain
clear skies

light strong winds
icy conditions

Language tip

A collocation is two or more words that often occur together.

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4 Write the correct extreme weather condition under each photograph.

• hurricane • sandstorm • heatwave • flood



1 sand storm



2 Flood



Lessons 5–6 Storms ahead!

1 Put the sentences in the correct order to describe what global warming can do.

- More moisture causes heavy rain.
- Moisture evaporates into the air.
- It also causes more storms.
- The storms and heavy rainfall cause floods.

1 The Earth's oceans become warmer.

2 Moisture evaporates into the air.

3 More moisture causes heavy rain.

4 It also causes more storms.

5 The storms and heavy rainfall cause floods.

2 Complete the text by writing *thunder* or *lightning* in the correct places.

- ¹ Thunder and ² lightning always go together because ³ thunder is the sound that is made by ⁴ lightning. This means that ⁵ lightning is always followed by ⁶ thunder.

When a thunderstorm is a long way away, you might see the ⁷ lightning but you might not hear the ⁸ thunder.



3 Choose the correct options in each sentence to complete the passive form.

1 In Amsterdam, bicycles is/are use/used instead of cars.

2 Thunder is/be cause/caused by lightning.

3 In a sandstorm, lots of sand has/is carry/carried over cities.

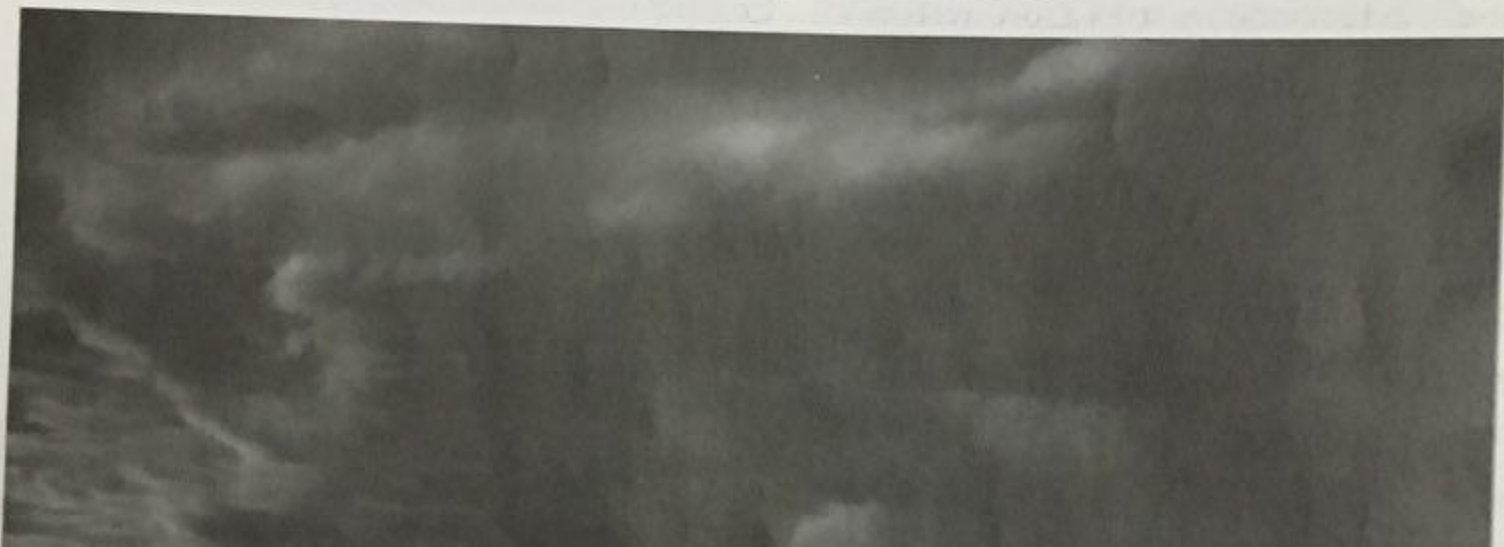
4 Storm Kelly is/be followed/follow by many storm chasers.

5 Energy be/is saved/save when we turn our lights off.

6 Electricity be/is also produce/produced from sun, wind and water.

7 Everybody's help is/was need/needed to save our planet.

4 Rewrite the following active sentences as passive sentences.



Lesson 7 Practise and prepare

1 Which type of extreme weather is being described?

- flood • thunder • heatwave • lightning • sandstorm • hurricane

- 1 It usually happens in a desert. It is a strong wind that carries sand with it. sandstorm
- 2 It comes from a cloud and there's a loud sound after it. lightning
- 3 You can hear this sound when there is a storm. thunder
- 4 There is very heavy rain and the wind is extremely strong. hurricane
- 5 When it happens there is too much water. flood
- 6 When the temperature stays above average for a long time. heatwave

2 Read the following article about preventing global warming and choose the correct word to fill in the missing blanks.

- moisture • heavy • wind • pollution • atmosphere • Sun

What is global warming?

Many scientists think that the Earth is getting warmer – a lot warmer. This is because there is more 1 pollution from driving so many cars and building so many factories.

What can we do to stop this happening?

- We need to stop using our cars so much. We can do this by walking, cycling and trying to use public transport rather than taking the car.
- We can try to find energy in ways that are

Lessons 8–9 Energy from different sources

1 Complete the text using the words in the box.

• electricity • fuels • green • wind • geothermal • solar • run • energies

Hi! My name's Sigurdur and I live in Iceland. In Iceland we believe that we should stop using fossil

¹ fuels that will ² run out one day. The only solution to the problem of pollution

is ³ green power, like wind power and solar power from the Sun. We have many

⁴ wind turbines in Iceland that work very well because we have strong winds here, and our house uses energy from the Sun.

We make our electricity from the ⁵ solar panels on the top of our roof! This means that our ⁶ electricity bill isn't very high and that makes my parents happy.



We also have a lot of volcanoes in Iceland, as the earth near the surface is very hot. My father works with



3 Look at these groups of words. Circle the word which doesn't fit and explain why.

- 1 electricity heat the Sun

Electricity and heat are types of energy, but the sun is a source of energy.

- 2 coal dinosaurs natural gas

Dinosaurs are animals that lived millions of years ago, whereas coal

- 3 hydro clean green and natural gas are fossil fuels.

Hydro power is a kind of clean or green power.

- 4 wind sunshine glass

Glass is used to make solar panels, but wind and sunshine are natural resources.

- 5 renewable energy power

Renewable is a kind of energy / power.

- 6 wind turbine geyser solar panel

A geyser is something natural, but wind turbines and solar panels are man-made.

4 Complete the sentences using the present passive of the verb in brackets.

- 1 A wind turbine produces electricity when it (turn) is turned by the wind. The electricity

(collect) is collected in a battery.

- 2 Geothermal energy (use) is used for heating houses and schools in Iceland.

- 3 Glass and silicon (need) are needed to make solar panels.

Lessons 10–11 **Eco-buildings**

- 1** Think about the text you read in your Coursebook on page 211 about Beth and Maggie's eco-house. Match the sentence halves to summarise the text.

e1 Beth and Maggie are twin sisters

f2 They do normal things for their

a3 Their parents used

d4 There are solar panels

c5 The house stays cool in the summer

b6 The girls mostly enjoy

a recycled materials to build the house.

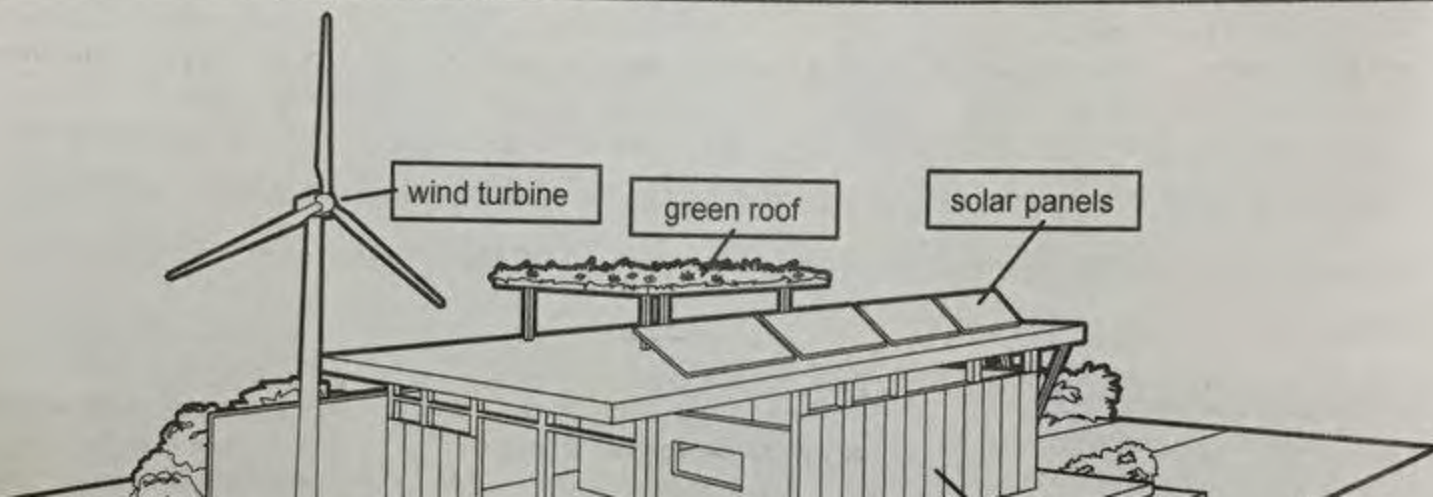
b the green roof and they can even water it.

c because the windows have a different kind of glass.

d that heat the water.

e who live in the south of England.

f age but they live in a special house.



- 3 Read what these students from Howe Dell school say about their school environment. Write the correct word from the box to explain what they are talking about.

• Interseasonal Heat Transfer system • desks • solar panels • carpet • glass ceilings
• recycled rainwater • green roof • thick walls • green curriculum

The cook in our school prepares the food with water that is always warm!

1

solar panels

When we go to the toilet we can use as much water as we like. The weather in England is useful for this.

2

recycled rainwater

We can use the cold winter temperatures to stay cool in summer. We keep the summer heat for the cold winter days.

3

Interseasonal Heat Transfer

Today we talked about what each one of us can do to save our planet. We also learned about hydro power!

4

green curriculum

We had some new bits of carpet put in the school last week. They didn't have to change all of the carpet.

5

carpet

It was cold yesterday, but we still went up and saw some funny animals. One of them had six legs and wings!

6

green roof

Some people ask us if there is water moving under our notebooks and books. That's so

The classrooms stay warm all day and we don't need to turn

When you walk in our school you can see the sky and we only turn on the lights if it's very cloudy.

Lessons 12–13 **Eco-cities**

- 1** Match the words to make collocations from the text in your Coursebook on page 213 about Hammarby Sjöstad.

b1 industrial	a waste
e2 modern	b area
c3 natural	c materials
f4 public	d factory
a5 food	e architecture
g6 cycle	f transport
d7 thermal	g path

- 2** Complete the sentences using the correct collocation from Activity 1.

- 1** It's a shame there is so much food waste in the world when there are still children who are hungry.
- 2** I think I saw John riding his bike on the cycle path in the park.
- 3** Public transport is so good here. You only have to wait five minutes until the next bus comes.
- 4** Somebody said they are planning to build a thermal to make green power from hot

We don't do 181.

Lesson 14 Practise and prepare

1 Complete this article about Tianjin eco-city in China using the words from the box.

• area • eco-city • transport • recycled • architects and engineers
• solar panels • industrial • public • environmentally • electricity

Biggest eco-city in the world ready by 2020!

China and Singapore are working together to create the world's largest

¹ eco-city. It will give homes to 350,000 people and ² architects and engineers hope it will be ready by 2020.

The city will be built on an

³ industrial area. In the past, eco-cities were built in ⁴ environmentally important places. The Chinese and Singaporeans wanted to show that it's possible to clean up a polluted ⁵ area and make it useful and liveable in. There will be green, ⁶ public spaces all around the city and people will be able to use green public ⁷ transport, like the light rail system. They are even planning to use EN-V cars – cars which use batteries and ⁸ electricity, and can even drive themselves!

