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Lessons 1-2 Eco-living

1 Match these collocations.

- 1 carbon e
- 2 fossil c
- 3 transport b
- 4 wind f
- 5 light d
- 6 air a

- a turbulence
- b network
- c fuel
- d well
- e footprint
- f tower

2 Read and complete this extract from the presentation.

carbon footprint clean energy artificial carbon-neutral light wells
 innovations eco-friendly air turbulence wind tower

The city was designed to be one of the world's first carbon-neutral¹ urban developments, powered by clean energy². Even during the construction of the city, there was a small carbon footprint³.

The designers combined the latest innovation⁴ and materials with traditional knowledge of how to manage the heat of the desert to reduce the need for air conditioning and heating. The streets are cooled by a 45-metre-high wind tower⁵, which draws air

down to bring in a cool breeze. This is taken from a traditional Arabic design. The buildings are close together to create natural shade in the streets. Following the models of places such as Cairo and Muscat, the streets are also shorter. The buildings at the end of each street cause air turbulence⁶ which pushes hot air upwards and allows cooler air in.

The need for artificial⁷ light is reduced by the use of large windows and light wells⁸ in the roofs, which make more use of natural light.



3 Answer the questions. Write complete sentences.

1 When did work start on Masdar City?

on Masdar city the work started in 2008

2 What kind of fuel were the designers of Masdar City trying to stop using?

Designers of Masdar city trying to stop using carbon-neutral

3 Choose and circle the correct options.

- 1 The / ~~the~~ Satellites are a useful communications device.
- 2 Many countries around the - world have sent satellites into space.
- 3 An / ~~an~~ Arabic is harder to learn than many other languages.
- 4 If you want to be an - engineer, you should study the / ~~an~~ science.
- 5 I've always wanted to visit a / ~~a~~ New York.
- 6 The / ~~The~~ Al Hajar Mountains are in the Emirates and the / ~~the~~ Mount Everest is in Nepal.
- 7 The / - third Dubai satellite will be called KhalifaSat.
- 8 The first satellite was launched in the / ~~the~~ Russia.

4 Complete the sentences with the words in the box.

antennae navigation satellite telecommunications
global positioning systems high-definition

- 1 telecommunications systems provide us with mobile phone services.
- 2 This high-definition television has the best pictures. You can see every tiny detail.
- 3 We use global positioning systems to calculate our location and to show us how to get somewhere.
- 4 Satellites have antennae so that they can send and receive signals.
- 5 The explorers of the past used simple navigation systems to plan their routes.

5 Think of the different ways you use satellite technology every day. How does it affect and improve your life? Write a short paragraph.

for early warning

Lessons 3-4 Satellites

1 Complete this extract from the text in your Coursebook with the words in the box.

launched 2018 founded 2015 engineers space industry science sold

In 2015¹, the Mohammed bin Rashid Space Centre (MBRSC) was Founded² by Sheikh Mohammed bin Rashid in Dubai to support Science³ and technology in the Emirates. The centre, and its 68 engineers⁴, want to create a new space industry⁵ in the Emirates. Its projects include the Emirates Mars Mission and satellite technology⁶. Dubai and Abu Dhabi have both launched⁷ two satellites into space and the MBRSC is preparing to launch a fifth satellite, KhalifaSat, in 2018⁸.

2 Rewrite the sentences with the correct information.

1 The Mohammed bin Rashid Space Centre (MBRSC) is in Abu Dhabi.

The Mohammed bin Rashid Space Centre (MBRSC) is in Dubai.

2 There are 66 engineers at the MBRSC.

There are 68 engineers at the MBRSC.

3 One of the MBRSC's projects is a mission to the Moon.

One of the MBRSC's projects is a mission to Mars.

4 KhalifaSat will be the Emirates' third satellite.

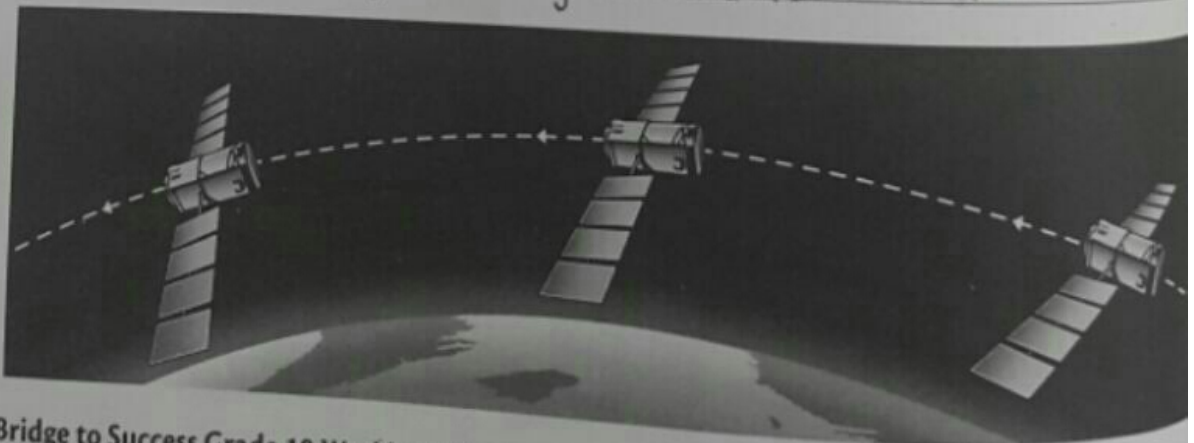
KhalifaSat will be the Emirates' fifth satellite.

5 Dubai and Sharjah have sent satellites into space.

Dubai and Abu Dhabi have sent satellites into space.

6 KhalifaSat is being built by the South Koreans.

KhalifaSat is being built by the Emirates.



3 Why do you think some materials are banned from the city? What kind of materials do you think these are?

Some materials are banned from Masdar city because they damage the environment, or they can't be recycled.

4 How are the old and new combined in the city?

The city combines new innovation in eco-friendly living with traditional way of living.

5 What does Masdar City copy from places like Cairo and Muscat and why?

Masdar city has shorter streets as the air turbulence of building in the heat of the desert.

6 How is the need for artificial light reduced?

The need of artificial light is reduced by having large windows and light wells.

4 Complete the conversation. Use the words in the box.

don't you sorry things like that haven't we What do you think was

A Do you think our city is environmentally friendly? I ...

B Well I ... Oh, *sorry* ^{1!}

A Sorry, I *was* ² just going to say, I think we could do more to have a green lifestyle, *don't you* ³?

B Definitely. The buildings are old, so we need to use lots of air conditioning to keep them cool. And the windows are small, so they are very dark. *what do you think?* ⁴

A I agree. I don't think we should get rid of the old buildings, but I think we could make changes: put light wells in the roofs, use solar panels for energy, *things like that* ⁵.

B They're really good ideas. I think that would save energy.

5 Look at these pictures. What do you think will be good and bad about the buildings in each one? Write a short text. Think about:

- their effect on the environment
- how much they cost to build
- what they are like to live in.



Lessons 5-6 Solar cars

1 Complete the sentences.

rechargeable solar hybrid organic paint traditional sunroof electric silicon

- 1 traditional cars are powered by petrol or diesel.
- 2 A hybrid car uses both petrol or diesel and electrical energy.
- 3 solar cars get all their energy from batteries.
- 4 The batteries in electric or hybrid cars are rechargeable.
- 5 The latest research is trying to use electric energy to power vehicles.
- 6 The most effective photovoltaic cells are made of silicon.
- 7 organic cells are flexible and transparent.
- 8 It may be possible to use solar paint to convert solar to electrical energy.



2 Answer the questions with short answers.

1 Why is it a good idea to use something different to petrol and diesel to power cars?

to less carbon from the air

2 Why is it important that the batteries in electric cars are rechargeable?

to don't buy another batteries each week when energy be less

3 Why do you think solar energy is a more appealing idea?

because its eco-friendly

4 Is the car designed by Ford ready at the moment?

yes it is

5 Why is replacing a car's sunroof with an organic solar cell a good idea?

to have a carbon neutral

6 What are the advantages of organic solar cells?

its more flexible and they are also transparent

7 What other methods of converting to solar energy are people researching?

solar panel system on the roof

8 Why is the Abu Dhabi Solar Challenge important?

to be UAE the first city who built solar power cars

3 Match the sentence halves.

- | | |
|--|------------------------------------|
| 1 This is my teacher, <i>e</i> | a is building a solar plane. |
| 2 This is the prize <i>c</i> | b where she studies solar energy. |
| 3 My sister goes to university, <i>b</i> | c which we won in the competition. |
| 4 The scientist, whose name I can't remember, <i>a</i> | d are competing tomorrow. |
| 5 The students, who are from China, <i>d</i> | e whose name is Mr Imad. |

4 Complete the sentences with the correct relative pronoun.

which who where when whose

- This is the car which has solar panels in the roof.
- Masdar City is a town where all the energy comes from a renewable source.
- These are the students who led the project about sustainable energy.
- This is the team from Belgium, whose car uses organic solar cells.
- This is the week when all the designs for the race are submitted.

5 Rewrite the sentences using non-defining relative clauses.

- This building doesn't damage the environment. It uses solar power.
The building, which uses solar power, doesn't damage the environment.
- My parents want to protect the environment. They drive a hybrid car.
My parents, which drive a hybrid car, want to protect the environment.
- My brother is researching solar paint. He studies in Masdar.
My brother, which studies in Masdar, is researching solar paint
- Traditional cars are bad for the environment. They use petrol and diesel.
Traditional cars, which uses petrol and diesel are bad for the environment
- The new car uses renewable energy. It has organic solar cells in the sunroof.
The new cars, which has organic solar cells in the sunroof, uses renewable energy