

Unit 3

Science: Now and then future

Eco-living

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 _____¹ urban developments, powered by _____². Even during the construction of the city, there was a small _____³.



The designers combined the latest _____⁴ 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 _____⁵, 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 _____⁶, which pushes hot air upwards and allows cooler air in.

The need for _____⁷ light is reduced by the use of large windows and _____⁸ in the roofs, which make more use of natural light.