

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.

