



GCSE
GEOGRAPHY

Paper 2 Challenges in the
Human Environment

8035/2

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FIGURE 3 for use with Question 1

An image shows a busy road. To the side of the road there are children sitting and studying at desks, supervised by adults. There are books and other classroom material on the desks.

[Turn over]

FIGURE 4 for use with Question 1



Name of cycle route

 **Belgrave**

 **Beaumont Leys**

 **A50 Groby Road**

 **A47 Hinckley Road**

 **Mill Lane Bridge**

 **Eyres Monsell/Aylestone Village**

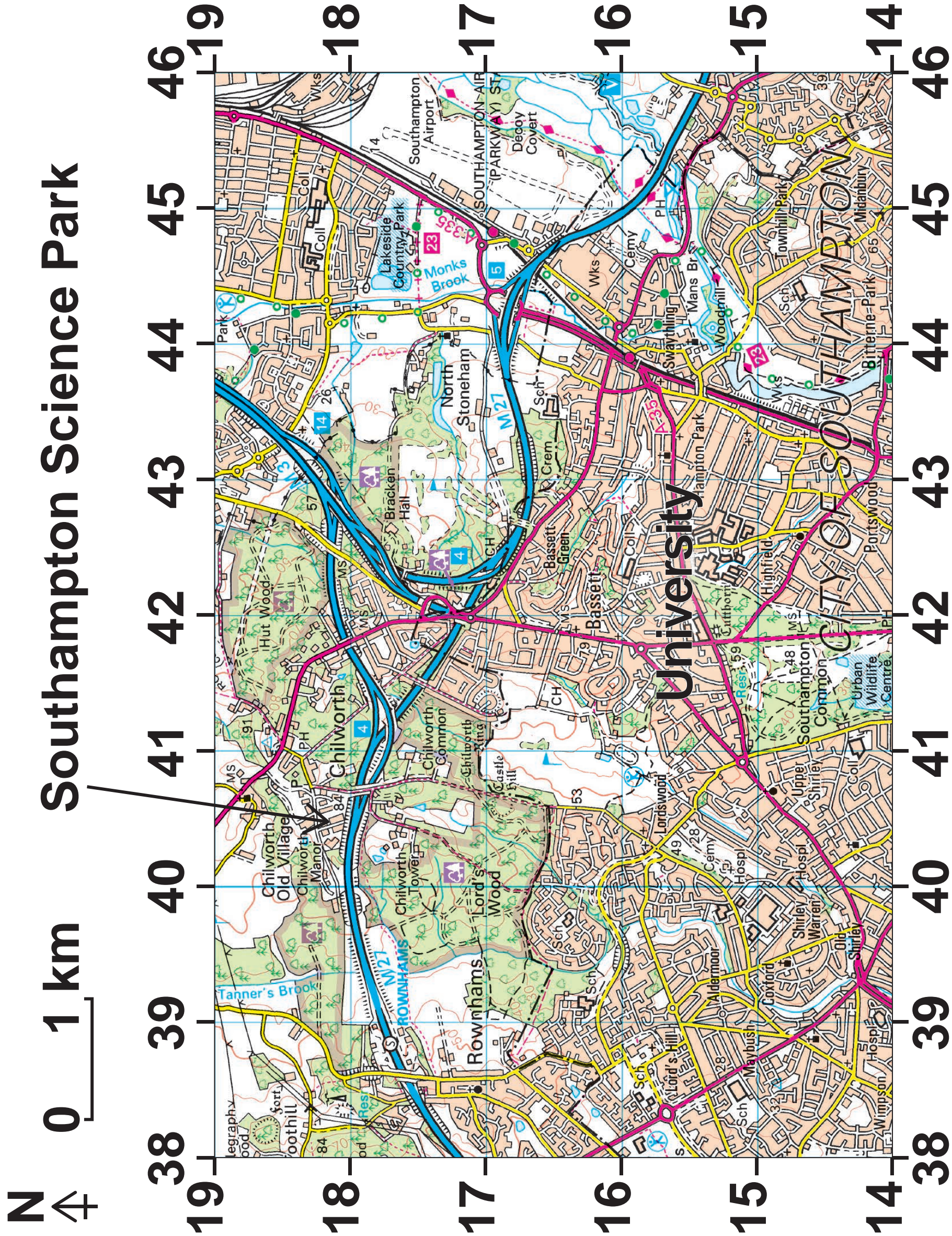
 **Queens Road/Clarendon Park**

 **Oadby Racecourse**

 **Evington Library**

[Turn over]

FIGURE 5 for use with Question 2



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FIGURE 6 for use with Question 2

Provides high-quality office, laboratory and meeting facilities in a healthy and inspiring environment.

72 acres of green space, lakes, walking routes and picnic spots.

27 acres are a protected conservation area.

Committed to minimising waste and making buildings more energy efficient.



An image shows a new road being constructed.



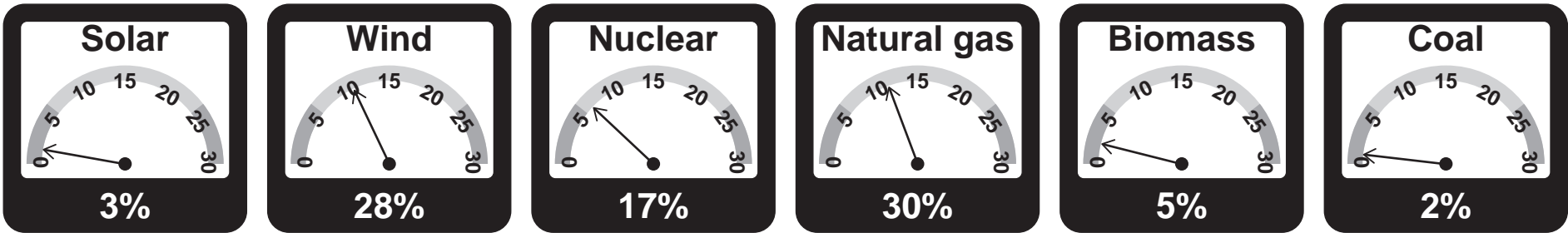
An image shows a bus, parked at Southampton Science Park. 'University of Southampton Science Park' can be read advertised on the bus.



An image shows a top-down view of a developed area. There are buildings, parking and green space.

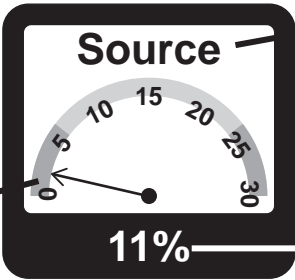
[Turn over]

FIGURE 10 for use with Question 3



KEY

Amount of electricity in gigawatts



Method of generation
% of total

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FIGURE 11a for use with Question 3

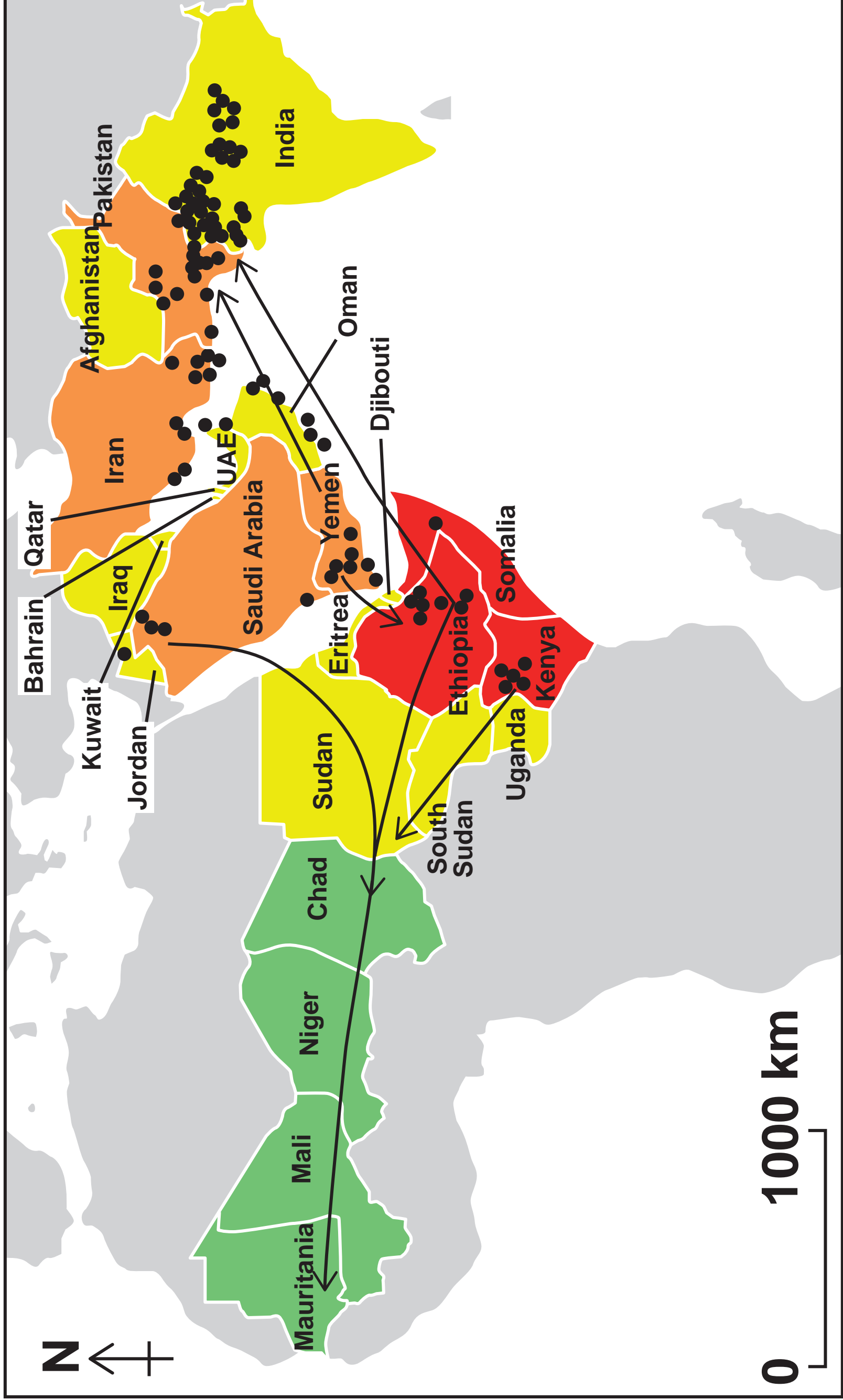
An image shows a cartoon of two people at a table about to have a meal. One of the people says, “I thought that we were going to eat something exotic tonight – not just a traditional English meal.” The other replies with, “We are. Potatoes from Canada, peas from Kenya, lamb from New Zealand.”

FIGURE 11b for use with Question 3

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[Turn over]

FIGURE 12 for use with Question 4



KEY

Threat level



Dangerous



Serious threat



Some threat



Limited threat

•• Swarms



→ Movement

[Turn over]

FIGURE 13 for use with Question 4

Zai is a farming technique used in the western Sahel region (Burkina Faso, Niger, Mali). It uses holes dug in the soil during the dry season to catch water and concentrate compost.

This is an old technique updated by filling the holes with manure and compost to provide plant nutrients. The manure attracts termites, whose tunnels help break up the soil. Zai holes improve the yields of trees, sorghum and millet by up to 500 per cent.






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FIGURE 14 for use with Question 5

KEY

Risk of water insecurity

-  **Very low**
-  **Low**
-  **Medium**
-  **High**
-  **Very high**

[Turn over]

FIGURE 15a for use with Question 5

An image shows an aerial view of a desalination plant. Lots of large industrial buildings are shown. There are roads between the buildings and the plant is located by the coast.

FIGURE 15b for use with Question 5

WATER SOURCE	Cost (US\$) per acre foot*
Groundwater	90–160
Treating wastewater	1600–1700
Seawater desalination	2200–4300

*** The amount of water needed to cover an acre (approximately a football pitch) in water 1 foot (30 cm) deep.**

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FIGURE 16 for use with Question 6




0 500 km


KEY

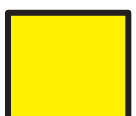
**Percentage share
of electricity
production from
renewables, 2019**

 **81 – 100**

 **61 – 80**

 **41 – 60**

 **21 – 40**

 **0 – 20**

 **No data**

[Turn over]

FIGURE 17 for use with Question 6

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UK Has the Largest Wind & Tidal Resources in Europe.

1 offshore wind turbine can supply 3312 households with electricity

UK has one of the largest marine energy resources in the world, more than 10GW, representing about 50% of Europe's tidal energy capacity.

The wind power industry could create 750 000 jobs by 2030.

The construction cost of tidal range power dropped 65% over the years from £275/kW in 1996 in France to £95/kW in 2011 in South Korea.

END OF FIGURES

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