

Unit 6 The bigger picture

29 Current and emerging trends (Student book, pages 264–270)

1 Explain what is meant by artificial intelligence (AI).

.....

.....

.....

.....

.....

.....

.....

2 Describe **two** ways in which artificial intelligence is being used in medicine.

1.....

.....

.....

.....

.....

.....

2.....

.....

.....

.....

.....

.....

3 State two reasons why DNA is useful as a data storage medium.

1.....
.....
.....
.....

2.....
.....
.....
.....

4 Describe **two** uses of nanotechnology.

1.....
.....
.....
.....

2.....
.....
.....
.....

5 Explain why a quantum computer can break encryption codes far more rapidly than a standard computer.

.....

.....

.....

.....

6 Describe what is meant by the following terms used in quantum computing:

a) superposition

.....

.....

.....

.....

.....

.....

b) entanglement

.....

.....

.....

.....

.....

.....