ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 14 · 10 QUESTIONS

Sustainable Energy — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A bicycle rolls down a hill. What happens to its gravitational potential energy?**

- A it increases
- B it becomes chemical energy stored in the bike
- C it decreases as kinetic energy increases
- D it stays the same

Understand It with Pulse | Flag a mistake

2 **A kite is held by a string. What force does the string exert?**

- A air resistance
- B friction
- C gravity
- D tension

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3 **A Sankey display shows most of the energy from a car engine going to heat. What does this mean?**

- A the engine makes energy
- B most of it is wasted
- C the car is very efficient
- D the car uses no fuel

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4 **Which of these is a renewable energy resource?**

- A coal
- B oil
- C wind
- D natural gas

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5 **A force of 50 N pushes a box 4 m along the ground. How much work is done?**

- A 230 J
- B 100 J
- C 400 J
- D 200 J

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6 **Which of these is a use of geothermal energy?**

- A lighting homes
- B making petrol for cars
- C powering cars
- D heating buildings

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7 **A 10 kg object moves at 2 m/s. What is its kinetic energy?**

- A 40 J
- B 20 J
- C 30 J
- D 10 J

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8 **A river is polluted by fertiliser. What grows too fast in the water?**

- A fish
- B algae
- C reeds
- D trees

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9 **A spring has a spring constant of 50 N/m. It is stretched by 5 cm. What is the elastic potential energy stored?**

- A 0.0313 J
- B 0.25 J
- C 0.0625 J
- D 0.125 J

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10 **A cheese pizza is cooked in an oven. How is energy transferred in the oven?**

- A by condensation on the oven walls
- B by evaporation from the cheese
- C by conduction only, through the tray
- D by radiation and convection

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ANSWER KEY

1. C
2. D
3. B
4. C
5. D
6. D
7. B
8. B
9. C
10. D

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