ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 19 · 10 QUESTIONS

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

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2 **A cheese pizza contains cheese made from milk. What is milk rich in?**

- A vitamin C
- B iron
- C fibre
- D calcium

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3 **In a Sankey display, what does a wider arrow show?**

- A energy transferred for longer
- B energy transferred in a straight line
- C more energy transferred
- D energy transferred faster

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4 **A 4 kg object is lifted 5 m. Use g = 10 N/kg. What is the gain in gravitational potential energy?**

- A 200 J
- B 400 J
- C 100 J
- D 20 J

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5 **A machine uses 800 J of energy and gives out 400 J of useful energy. What is its efficiency?**

- A 50%
- B 25%
- C 60%
- D 100%

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6 **A device transfers 100 J of energy in 10 seconds. What is its power?**

- A 20 W
- B 10 W
- C 1000 W
- D 5 W

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7 **A rocket launches straight up. Which force acts downwards on the rocket?**

A air resistance

B gravity

C lift

D thrust

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

A 510 J

B 1000 J

C 250 J

D 500 J

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

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

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

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

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ANSWER KEY

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

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