ENGLAND GCSE PHYSICS AQA FOUNDATION · UNIT 1 · 5 QUESTIONS

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 to let Brett know so he can fix it.

1 **A red race car speeds up on a straight track. What is the resultant force doing?**

- A doing nothing
- B causing a turn
- C causing deceleration
- D causing acceleration

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2 **A 5 kg object is lifted 3 m. Use g = 10 N/kg. What is the gain in gravitational potential energy?**

- A 75 J
- B 150 J
- C 300 J
- D 15 J

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3 **A cup of coffee is hot. How is energy transferred to the air?**

A by evaporation only, from the top

B by condensation on the cold cup

C by radiation only, from the surface

D by conduction and convection

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4 **Which energy resource will run out first?**

A tidal power

B solar power

C a fossil fuel

D geothermal power

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5 **A machine uses 400 J of energy and gives out 200 J of useful energy. What is its efficiency?**

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

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ANSWER KEY

1. D
2. B
3. D
4. C
5. A

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