ENGLAND GCSE PHYSICS OCR GATEWAY FOUNDATION · UNIT 4 · 10 QUESTIONS

Magnetism and Magnetic Fields — 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 basketball is thrown up. What happens to its speed as it rises?**

- **A** it increases
- **B** it stays the same
- **C** it decreases
- **D** it becomes zero

Understand It with Pulse | Flag a mistake

2 **A guitar is plugged into an amplifier. What flows through the cable?**

- A light
- B water
- C electric current
- D sound waves travelling along it

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3 **Which metal is best for a permanent magnet?**

- A iron
- B steel
- C aluminium
- D copper

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4 **A wristwatch is used to time a race. What is speed calculated from?**

A mass and time together

B distance and time

C time only, not distance

D distance only, not time

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5 **A calculator uses a battery. What energy is stored in the battery?**

A kinetic energy of motion

B thermal energy from heat

C chemical energy

D light energy from the Sun

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6 **Hardcover books have mass. What is mass measured in?**

A joules

B kilograms

C newtons, the unit of force

D watts

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7 **A tennis ball bounces. What happens to its kinetic energy?**

A it all stays kinetic energy

B it becomes light energy

C some becomes heat

D it disappears completely

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8 **How can an electromagnet be made stronger?**

- A a smaller current
- B a wooden core
- C fewer turns on the coil
- D more turns on the coil

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9 **What happens to the strength of a magnetic field as you move away from the magnet?**

- A it gets weaker
- B it disappears at once
- C it gets stronger
- D it stays the same

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10 **Which of these is a magnetic material?**

A copper

B iron

C wood

D aluminium

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ANSWER KEY

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

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