ENGLAND GCSE PHYSICS AQA FOUNDATION · UNIT 7 · 10 QUESTIONS

Magnetism and Electromagnetism — 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 calculator runs on a small current. What is current measured in?**

A amperes

B volts, the unit of voltage

C ohms, the unit of resistance

D watts, the unit of power

Understand It with Pulse | Flag a mistake

2 **A guitar string is tightened. What happens to the pitch?**

- A it disappears
- B it rises
- C it falls
- D it stays the same

Understand It with Pulse | Flag a mistake

3 **The force on a wire in a magnetic field is 6 N. If the current doubles, what is the new force?**

- A 6 N
- B 18 N
- C 12 N
- D 3 N

Understand It with Pulse | Flag a mistake

4 **A transformer has a primary voltage of 240 V. The number of turns on the secondary coil is 2 times smaller than on the primary coil. What is the secondary voltage?**

- A 250 V
- B 240 V
- C 480 V
- D 120 V

Understand It with Pulse | Flag a mistake

5 **A yellow school bus stops at a station. What happens to its speed?**

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

Understand It with Pulse | Flag a mistake

6 **In Fleming's left-hand rule, what does the thumb show?**

- A the field direction
- B the force direction
- C the current direction
- D the wire direction

Understand It with Pulse | Flag a mistake

7 **A transformer has a primary voltage of 240 V. The secondary coil has 10 times fewer turns than the primary coil. What is the secondary voltage?**

- A 24 V
- B 250 V
- C 48 V
- D 2400 V

Understand It with Pulse | Flag a mistake

8 **A transformer has 100 turns on the primary coil and 20 turns on the secondary coil. What is the turns ratio?**

- A 6
- B 4
- C 10
- D 5

Understand It with Pulse | Flag a mistake

9 **A microphone and a loudspeaker both use a coil in a magnetic field. How do they differ?**

- A they work in exactly the same way
- B one uses light and the other uses heat
- C sound to current, current to sound
- D one needs no magnet at all

Understand It with Pulse | Flag a mistake

10 **How does a generator make electricity?**

A a current flows through a coil

B a battery is charged

C a magnet is heated

D a coil turns in a field

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.