ENGLAND GCSE PHYSICS AQA HIGHER · UNIT 8 · 10 QUESTIONS

Space Physics — 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 dropped. What energy store increases as it falls?**

- A thermal
- B elastic
- C gravitational potential
- D kinetic

Understand It with Pulse | Flag a mistake

2 **Hardcover books are dropped. What happens to their speed as they fall?**

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

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3 **A calculator is switched on. What does the battery transfer energy to?**

- A the screen only
- B the case
- C the circuits
- D the buttons only

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4 **A wristwatch measures time. What is the unit of time?**

- A the hour
- B the second
- C the day
- D the minute

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5 **What does cosmic microwave background radiation show?**

A the Universe is not expanding

B the early Universe was hot

C stars are cooling down

D the Earth is the centre

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6 **What does fusion release in a star?**

A cold

B energy

C water

D darkness

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7 **What holds the planets in orbit around the Sun?**

A magnetism

B air pressure

C friction

D gravity

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8 **A satellite orbits at a radius of 100 km and takes 10 seconds for one orbit. Use pi = 3.14. What is its orbital speed?**

A 125.6 km/s

B 31.4 km/s

C 67.8 km/s

D 62.8 km/s

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9 **A Ferris wheel turns. What force keeps a person moving in a circle?**

- A air resistance pushing them back
- B friction only, gripping the seat
- C centripetal force
- D gravity only, pulling them down

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10 **A passenger aeroplane flies at a steady speed and height. What is the resultant force on the aeroplane?**

- A 10000 N
- B 0 N
- C 1000 N
- D 5000 N

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ANSWER KEY

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

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