ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 21 · 10 QUESTIONS

Light and the Electromagnetic Spectrum — 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 set square is used to measure an angle of reflection. What is the angle of incidence equal to?**

A double the angle of reflection

B the angle of reflection

C half the angle of reflection

D zero

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

A the hour

B the day

C the minute

D the second

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3 **Why does light bend when it enters a different material?**

A it loses energy

B its speed changes

C its colour changes

D it becomes sound

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4 **A guitar string vibrates to make a sound. What type of wave is the sound wave?**

A longitudinal

B standing

C electromagnetic

D transverse

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5 **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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6 **An object 5 cm tall forms an image 10 cm tall. Calculate the magnification.**

- A 3
- B 1
- C 2
- D 4

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7 **A passenger aeroplane takes off. Which force lifts it up?**

- A thrust
- B drag
- C weight
- D lift

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8 **What are gamma rays used for?**

A transmitting radio signals

B seeing bones inside the body

C treating cancer

D cooking food in a microwave oven

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9 **An object 1 cm tall forms an image 2 cm tall. Calculate the magnification.**

A 4

B 2

C 3

D 1

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10 **Which wave has the longest wavelength in the electromagnetic spectrum?**

A X-rays, which have a short wavelength

B ultraviolet, which has a short wavelength

C radio waves

D gamma rays, which have the shortest wavelength

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ANSWER KEY

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

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