ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 20 · 25 QUESTIONS

Waves — 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 placed on a mirror. What happens to light hitting the mirror?**

- A it reflects
- B it is absorbed
- C it refracts
- D it passes through

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2 **A kite rises higher. What happens to the wind speed usually?**

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

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

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

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4 **A Ferris wheel turns slowly. A person on the wheel moves in a circle. What is the person's speed like?**

- A steady speed
- B decreasing speed
- C zero speed
- D increasing speed

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

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

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

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

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7 **A wave has a frequency of 2 Hz and a wavelength of 2 m. What is the wave speed?**

- A 2 m/s
- B 9 m/s
- C 4 m/s
- D 8 m/s

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8 **Why can sound not travel through a vacuum?**

- A it needs particles
- B it is blocked by glass
- C it needs light
- D it is too slow

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9 **A wave has a frequency of 2 Hz and a wavelength of 10 m. What is its speed?**

- A 10 m/s
- B 40 m/s
- C 20 m/s
- D 12 m/s

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10 **What is the speed of sound in air?**

- A 300000000 m/s
- B 150 m/s
- C 1000 m/s
- D 340 m/s

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11 **A wave travels at 20 m/s with a wavelength of 10 m. What is its frequency?**

- **A** 200 Hz
- **B** 4 Hz
- **C** 2 Hz
- **D** 1 Hz

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12 **A wave has a frequency of 5 Hz and a wavelength of 4 m. What is the wave speed?**

- **A** 20 m/s
- **B** 25 m/s
- **C** 10 m/s
- **D** 40 m/s

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13 **What type of wave is sound?**

A standing

B longitudinal

C electromagnetic

D transverse

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14 **A wave has a frequency of 20 Hz and a wavelength of 2 m. What is its speed?**

A 40 m/s

B 20 m/s

C 22 m/s

D 80 m/s

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15 **A wave travels at 20 m/s with a wavelength of 4 m. What is its frequency?**

- A 80 Hz
- B 5 Hz
- C 10 Hz
- D 2.5 Hz

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16 **What is the unit of frequency?**

- A the second
- B the joule
- C the hertz
- D the metre

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17 **A wave has a frequency of 2 Hz and a wavelength of 4 m. What is the wave speed?**

- A 16 m/s
- B 13 m/s
- C 4 m/s
- D 8 m/s

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18 **How is ultrasound used in medicine?**

- A to cut skin
- B to heat the body
- C to see inside the body
- D to make X-ray pictures of bones

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19 **A wave travels at 10 m/s with a wavelength of 10 m. What is its frequency?**

- A 0.5 Hz
- B 2 Hz
- C 1 Hz
- D 100 Hz

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20 **What is the wavelength of a wave?**

- A the height of the wave
- B the number of waves per second
- C the time for one wave
- D the distance between two peaks

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21 **A wave has a frequency of 20 Hz and a wavelength of 3 m. What is the wave speed?**

- A 120 m/s
- B 65 m/s
- C 30 m/s
- D 60 m/s

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22 **What are ultrasound waves?**

- A sound waves below human hearing
- B radio waves
- C sound above human hearing
- D light waves

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23 **A wave has a frequency of 4 Hz and a wavelength of 2 m. What is its speed?**

- **A** 6 m/s
- **B** 4 m/s
- **C** 16 m/s
- **D** 8 m/s

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24 **What does sound need to travel through?**

- **A** air only
- **B** a vacuum
- **C** water only
- **D** a medium

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25

A wave travels at 40 m/s with a wavelength of 10 m. What is its frequency?

A 400 Hz

B 8 Hz

C 4 Hz

D 2 Hz

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Flag a mistake

ANSWER KEY

1.	A	**10.**	D	**19.**	C
2.	B	**11.**	C	**20.**	D
3.	D	**12.**	A	**21.**	D
4.	A	**13.**	B	**22.**	C
5.	C	**14.**	A	**23.**	D
6.	C	**15.**	B	**24.**	D
7.	C	**16.**	C	**25.**	C
8.	A	**17.**	D		
9.	C	**18.**	C		

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