ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 23 · 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 wristwatch is used to time a race. What is speed calculated from?**

- A mass and time together
- B time only, not distance
- C distance and time
- D distance only, not time

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

4 **A set square is placed on a mirror. What happens to light hitting the mirror?**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

7 **A wave travels at 10 m/s with a wavelength of 5 m. What is its frequency?**

- A 2 Hz
- B 50 Hz
- C 4 Hz
- D 1 Hz

Understand It with Pulse | Flag a mistake

8 **Which type of radiation is used to take images of bones?**

- A infrared
- B ultraviolet
- C microwaves
- D X-rays

Understand It with Pulse | Flag a mistake

9 **What is the period of a wave?**

A the distance between peaks

B the time for one wave to pass

C the height of the wave

D the number of waves per second

Understand It with Pulse | Flag a mistake

10 **What is black body radiation?**

A radiation absorbed by black objects

B radiation from black objects only

C radiation with no energy

D radiation emitted by all objects

Understand It with Pulse | Flag a mistake

11 **A wave has a frequency of 5 Hz and a wavelength of 10 m. What is its speed?**

- A 25 m/s
- B 50 m/s
- C 100 m/s
- D 15 m/s

Understand It with Pulse | Flag a mistake

12 **Which type of radiation is used to cook food?**

- A gamma rays
- B X-rays
- C ultraviolet
- D microwaves

Understand It with Pulse | Flag a mistake

13 **A wave has a frequency of 20 Hz and a wavelength of 4 m. What is its speed?**

- A 40 m/s
- B 160 m/s
- C 24 m/s
- D 80 m/s

Understand It with Pulse | Flag a mistake

14 **A wave travels at 40 m/s with a wavelength of 4 m. What is its frequency?**

- A 5 Hz
- B 10 Hz
- C 20 Hz
- D 160 Hz

Understand It with Pulse | Flag a mistake

15 **Which type of radiation can cause sunburn?**

A microwaves

B radio waves

C ultraviolet

D infrared

Understand It with Pulse | Flag a mistake

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

A 300000000 m/s

B 1000 m/s

C 340 m/s

D 150 m/s

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

18 **Which of these has the highest frequency?**

- A gamma rays
- B microwaves
- C infrared
- D radio waves

Understand It with Pulse | Flag a mistake

19 **What does a concave lens do to light?**

- A it absorbs light
- B it brings light to a focus
- C it spreads light out
- D it reflects light

Understand It with Pulse | Flag a mistake

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

- A 20 m/s
- B 40 m/s
- C 10 m/s
- D 9 m/s

Understand It with Pulse | Flag a mistake

21 **What do all electromagnetic waves travel at?**

A different speeds

B the speed of the wave

C the speed of light

D the speed of sound

Understand It with Pulse | Flag a mistake

22 **Which type of wave is a sound wave?**

A transverse

B longitudinal

C standing

D electromagnetic

Understand It with Pulse | Flag a mistake

23 **What is an echo?**

- A a reflected sound wave
- B a refracted sound wave
- C a high pitched sound
- D a loud sound

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

25

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

A 22 m/s

B 40 m/s

C 20 m/s

D 80 m/s

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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