ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY HIGHER · UNIT 18 · 25 QUESTIONS

Global Challenges in 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 so it can be fixed.

1 **A bicycle freewheels downhill. What happens to its speed?**

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

Understand It with Pulse | Flag a mistake

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

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

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3 **A rocket launches straight up. Which force acts downwards on the rocket?**

- A gravity
- B thrust
- C air resistance
- D lift

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4 **A red race car brakes hard. What happens to its kinetic energy?**

- A it disappears
- B it becomes sound only, nothing else
- C it is transferred to heat
- D it increases

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5 **A passenger train brakes. What force slows it down?**

- A friction
- B lift
- C gravity, pulling it down
- D thrust

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6 **A sailing ship uses the wind. What type of energy is wind?**

- A chemical energy
- B thermal energy
- C kinetic energy
- D potential energy

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7 **Fishing boats float on water. Why do they float?**

A they are made of metal, which floats

B they displace enough water

C they have sails that catch the wind

D they are heavy and sink slowly

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8 **Why do crash helmets have a soft lining?**

A it makes the helmet stronger

B it lengthens the impact time

C it makes the helmet lighter

D it keeps the head warm

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9 **What happens to the carbon dioxide released by burning biofuel?**

A it stays in the air for ever

B new plants absorb it

C it falls to the ground

D it turns into oxygen

Understand It with Pulse | Flag a mistake

10 **Which of these increases the thinking distance?**

A being tired

B good brakes

C new tyres

D a dry road

Understand It with Pulse | Flag a mistake

11 **Which of these is a non-renewable energy resource?**

A wind

B hydroelectric

C coal

D solar

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12 **What is the main problem with burning coal?**

A carbon dioxide

B it is expensive

C it runs out quickly

D it is hard to dig up

Understand It with Pulse | Flag a mistake

13 **Which of these makes no carbon dioxide while generating electricity?**

A nuclear

B coal

C natural gas

D oil

Understand It with Pulse | Flag a mistake

14 **A Ferris wheel is at the top. What is the person's height like?**

A at its greatest

B unchanged

C at its smallest

D at zero

Understand It with Pulse | Flag a mistake

15 **What does a crumple zone do in a crash?**

A it stops the wheels turning

B it makes the car faster

C it absorbs energy

D it protects the paintwork

Understand It with Pulse | Flag a mistake

16 **Which of these is a use of geothermal energy?**

A heating buildings

B lighting homes

C powering cars

D making petrol for cars

Understand It with Pulse | Flag a mistake

17 **What is the thinking distance?**

A the distance travelled while braking

B the distance covered while reacting

C the total stopping distance

D the distance between two cars

Understand It with Pulse | Flag a mistake

18 **Why is solar power not used at night?**

A the panels are switched off

B the Sun is too far away

C the panels cool down

D there is no sunlight

Understand It with Pulse | Flag a mistake

19 **Why is nuclear power not renewable?**

A uranium will run out

B it makes carbon dioxide

C it makes no waste

D it needs sunlight

Understand It with Pulse | Flag a mistake

20 **Why are speed limits lower near schools?**

A to stop cars altogether

B to stop cars sooner

C to make cars quieter

D to save fuel

Understand It with Pulse | Flag a mistake

21 **What is a disadvantage of wind power?**

A it makes radioactive waste

B it makes carbon dioxide

C it uses up fuel

D it needs wind to work

Understand It with Pulse | Flag a mistake

22 **Which energy resource uses moving air?**

A wind

B coal

C solar

D nuclear

Understand It with Pulse | Flag a mistake

23 **Why do cars have seatbelts?**

- A they stop the car faster
- B they stretch the stopping time
- C they hold the engine in place
- D they make the car heavier

Understand It with Pulse | Flag a mistake

24 **Why is biofuel called renewable?**

- A it is free
- B it makes no waste
- C new plants can be grown
- D it never runs out of plants

Understand It with Pulse | Flag a mistake

25 **Why do some people object to wind turbines?**

A they spoil the landscape

B they use up coal

C they make carbon dioxide

D they stop the wind blowing

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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