ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 1 · 25 QUESTIONS

Key Concepts of 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 calculator is switched on. What does the battery transfer energy to?**

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

Understand It with Pulse | Flag a mistake

2 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 0
- B 100
- C 10
- D 32

Understand It with Pulse | Flag a mistake

3 **Hardcover books are stacked on a table. What force pulls them down?**

- A gravity
- B air resistance
- C tension
- D friction

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4 **Silver coins conduct electricity well. Why?**

- A they are heavy
- B they are cold
- C they have free electrons
- D they are shiny and reflective

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5 **A wristwatch is used to time a race. What is speed calculated from?**

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

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6 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

- A particles vibrate in fixed positions
- B particles move freely through space
- C particles flow past each other easily
- D particles are far apart from each other

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7 **Round 3.456 to 2 significant figures.**

- A 3.46
- B 3.0
- C 3.5
- D 3.4

Understand It with Pulse | Flag a mistake

8 **Convert 500 ms to s.**

- A 0.05
- B 50
- C 0.5
- D 5

Understand It with Pulse | Flag a mistake

9 **In standard form, what must the first number be?**

- A always exactly 10
- B a whole number bigger than 10
- C between 1 and 10
- D between 0 and 1

Understand It with Pulse | Flag a mistake

10 **How many millimetres are there in 1 metre?**

- A 1000
- B 1000000
- C 100
- D 10

Understand It with Pulse | Flag a mistake

11 **What is the SI unit of length?**

A kilogram, the unit of mass

B ampere, the unit of current

C second, the unit of time

D metre

Understand It with Pulse | Flag a mistake

12 **What is a random error?**

A an error that cannot affect the result

B an error caused by a faulty instrument only

C an error that changes each time

D an error that is the same every time

Understand It with Pulse | Flag a mistake

13 **Why repeat a measurement and take a mean?**

A to find more readings to write down

B to practise using the instrument

C for a reliable result

D to use up the time available

Understand It with Pulse | Flag a mistake

14 **Convert 45 cm to mm.**

A 4.5

B 45

C 450

D 4500

Understand It with Pulse | Flag a mistake

15 **What is 0.004 in standard form?**

- A 0.4×10^{-2}
- B 40×10^{-4}
- C 4×10^{-3}
- D 4×10^{3}

Understand It with Pulse | Flag a mistake

16 **What does the prefix milli mean?**

- A one thousand times the unit
- B one hundredth of the unit
- C one millionth of the unit
- D one thousandth

Understand It with Pulse | Flag a mistake

17 **What is the SI unit of electric current?**

A ampere

B volt, the unit of potential difference

C ohm, the unit of resistance

D watt, the unit of power

Understand It with Pulse | Flag a mistake

18 **What is a systematic error?**

A an error caused by reading a scale wrong once

B an error that repeats every time

C an error that changes every time

D an error that makes results more accurate

Understand It with Pulse | Flag a mistake

19 **Round 5.678 to 3 significant figures.**

- A 5.678
- B 5.68
- C 5.70
- D 5.67

Understand It with Pulse | Flag a mistake

20 **Convert 2500 mm to m.**

- A 0.25
- B 2.5
- C 25
- D 250

Understand It with Pulse | Flag a mistake

21 **What does the prefix mega mean?**

A one million times

B one hundredth of the unit

C one thousandth of the unit

D one thousand times the unit

Understand It with Pulse | Flag a mistake

22 **What is the SI unit of temperature?**

A degree Fahrenheit, which is not an SI unit

B kelvin

C degree Celsius, which is not an SI unit

D joule, the unit of energy

Understand It with Pulse | Flag a mistake

23 **Which instrument measures volume of a liquid?**

- **A** a thermometer, which measures temperature
- **B** a ruler, which measures length
- **C** a balance, which measures mass
- **D** a measuring cylinder

Understand It with Pulse | Flag a mistake

24 **Round 12.64 to 3 significant figures.**

- **A** 12.65
- **B** 12.6
- **C** 12.7
- **D** 12.0

Understand It with Pulse | Flag a mistake

25

Convert 150 cm to m.

A 1.5

B 15

C 0.15

D 1500

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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