ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 17 · 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 so it can be fixed.

1 **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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

4 **A calculator runs on a small current. What is current measured in?**

- A amperes
- B ohms, the unit of resistance
- C watts, the unit of power
- D volts, the unit of voltage

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

6 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A above normal
- B impossible to tell
- C below normal
- D exactly normal

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

8 **What is 2500 in standard form?**

- A 2.5×10^{3}
- B 250×10^{1}
- C 25×10^{2}
- D 0.25×10^{4}

Understand It with Pulse | Flag a mistake

9 **What is meant by precise results?**

A written down to many decimal places

B measured with the newest instrument

C close to the true value every time

D close to each other

Understand It with Pulse | Flag a mistake

10 **What is the SI unit of mass?**

A metre, the unit of length

B joule, the unit of energy

C newton, the unit of force

D kilogram

Understand It with Pulse | Flag a mistake

11 **Convert 500 ms to s.**

A 5

B 50

C 0.05

D 0.5

Understand It with Pulse | Flag a mistake

12 **Which instrument measures length?**

A a stopwatch, which measures time

B a ruler

C a thermometer, which measures temperature

D a balance, which measures mass

Understand It with Pulse | Flag a mistake

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

A one million times

B one thousandth of the unit

C one thousand times the unit

D one hundredth of the unit

Understand It with Pulse | Flag a mistake

14 **Round 7.849 to 2 significant figures.**

A 7.9

B 7.8

C 7.85

D 7.0

Understand It with Pulse | Flag a mistake

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

A a ruler, which measures length

B a measuring cylinder

C a thermometer, which measures temperature

D a balance, which measures mass

Understand It with Pulse | Flag a mistake

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

A one hundred times the unit

B one thousandth of the unit

C one millionth of the unit

D one hundredth

Understand It with Pulse | Flag a mistake

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

A 40×10^{-4}

B 4×10^{3}

C 0.4×10^{-2}

D 4×10^{-3}

Understand It with Pulse | Flag a mistake

18 **What is resolution of an instrument?**

A how new the instrument is

B the smallest change it can show

C the largest value it can measure

D how heavy the instrument is

Understand It with Pulse | Flag a mistake

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

A degree Celsius, which is not an SI unit

B joule, the unit of energy

C degree Fahrenheit, which is not an SI unit

D kelvin

Understand It with Pulse | Flag a mistake

20 **Which instrument measures mass?**

A a measuring cylinder, which measures volume

B a stopwatch, which measures time

C a ruler, which measures length

D a balance

Understand It with Pulse | Flag a mistake

21 **What is the SI unit of amount of substance?**

A litre, which is not an SI unit

B mole

C gram, which is not an SI unit

D kilogram, the unit of mass

Understand It with Pulse | Flag a mistake

22 **Convert 2500 g to kg.**

A 0.25

B 25

C 2.5

D 250

Understand It with Pulse | Flag a mistake

23 **What does a thermometer measure?**

- A time, in seconds and minutes
- B temperature
- C mass, in grams and kilograms
- D length, in metres and centimetres

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

25

In standard form, what must the first number be?

A a whole number bigger than 10

B between 1 and 10

C between 0 and 1

D always exactly 10

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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