ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · 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 **A calculator is switched on. What does the battery transfer energy to?**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

6 **Glass marbles are used to model atoms. What is a limitation of the model?**

- A marbles are the wrong colour for atoms
- B marbles cannot be counted accurately at all
- C marbles are too small to see properly
- D marbles are much bigger than atoms

Understand It with Pulse | Flag a mistake

7 **Convert 45 cm to mm.**

- A 4500
- B 45
- C 4.5
- D 450

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

- A 7.9
- B 7.85
- C 7.0
- D 7.8

Understand It with Pulse | Flag a mistake

10 **What is a random error?**

- A an error caused by a faulty instrument only
- B an error that changes each time
- C an error that cannot affect the result
- D an error that is the same every time

Understand It with Pulse | Flag a mistake

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

A metre, the unit of length

B kilogram

C joule, the unit of energy

D newton, the unit of force

Understand It with Pulse | Flag a mistake

12 **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

13 **Which instrument measures mass?**

A a ruler, which measures length

B a measuring cylinder, which measures volume

C a stopwatch, which measures time

D a balance

Understand It with Pulse | Flag a mistake

14 **Convert 3 km to m.**

A 30000

B 3000

C 300

D 30

Understand It with Pulse | Flag a mistake

15 **What is 0.00056 in standard form?**

- A 560×10^{-6}
- B 5.6×10^{-4}
- C 0.56×10^{-3}
- D 56×10^{-5}

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

A how new the instrument is

B the largest value it can measure

C how heavy the instrument is

D the smallest change it can show

Understand It with Pulse | Flag a mistake

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

A kilogram, the unit of mass

B second, the unit of time

C ampere, the unit of current

D metre

Understand It with Pulse | Flag a mistake

19 **What does the prefix kilo mean?**

A one hundredth of the unit

B one million times the unit

C one thousandth of the unit

D one thousand times

Understand It with Pulse | Flag a mistake

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

A a balance, which measures mass

B a thermometer, which measures temperature

C a measuring cylinder

D a ruler, which measures length

Understand It with Pulse | Flag a mistake

21 **Convert 150 cm to m.**

- A 15
- B 1500
- C 0.15
- D 1.5

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

24 **What is the SI unit of time?**

- **A** day, which is 24 hours
- **B** hour, which is 3600 seconds
- **C** second
- **D** minute, which is 60 seconds

Understand It with Pulse | Flag a mistake

25 **How many grams are there in 1 kilogram?**

A 1000000

B 100

C 10

D 1000

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.