ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 18 · 10 QUESTIONS

Matter - Models and Explanations — 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 ladder is used to reach a roof. What is the ladder an example of?**

- A a simple machine
- B a lever only
- C a complex machine
- D a power source

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2 **A cup of coffee is hot. How is energy transferred to the air?**

- A by evaporation only, from the top
- B by conduction and convection
- C by radiation only, from the surface
- D by condensation on the cold cup

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3 **An object has a mass of 20 g and a volume of 50 cubic centimetres. What is its density?**

- A 0.4 g/cm³
- B 0.2 g/cm³
- C 0.8 g/cm³
- D 70 g/cm³

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4 **How much energy is needed to change 5 kg of a substance from solid to liquid, if the specific latent heat is 334000 J per kg?**

- A 835000 J
- B 334005 J
- C 1670000 J
- D 3340000 J

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5 **A block has a mass of 200 g and a volume of 500 cubic centimetres. What is its density?**

- A 0.8 g/cm³
- B 0.2 g/cm³
- C 3.4 g/cm³
- D 0.4 g/cm³

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

A below normal

B impossible to tell

C exactly normal

D above normal

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7 **An ice cream cone melts in the Sun. What is happening to the particles in the ice cream?**

A they lose energy and slow down a lot

B they stop moving

C they gain energy and move more

D they get smaller

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8 **What is internal energy?**

A the energy of one particle only

B the energy of the container and the room

C the heat lost to the room

D the total energy of the particles

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9 **A spring has a spring constant of 25 N/m. It is stretched by 4 cm. What is the force?**

A 2 N

B 0.5 N

C 1.5 N

D 1 N

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10 **A material has a density of 4 g per cubic centimetre. What is the mass of 20 cubic centimetres of it?**

- A 24 g
- B 80 g
- C 40 g
- D 160 g

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ANSWER KEY

1. A
2. B
3. A
4. C
5. D
6. D
7. C
8. D
9. D
10. B

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