ENGLAND GCSE PHYSICS OCR GATEWAY FOUNDATION · UNIT 1 · 5 QUESTIONS

Matter — Practice Test

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

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

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2 **A swimming pool holds water with a density of 1000 kg per cubic metre. What is the mass of 2 cubic metres of the water?**

- A 500 kg
- B 2000 kg
- C 4000 kg
- D 1000 kg

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3 **How much energy is needed to heat 1 kg of a substance with a specific heat capacity of 4200 J per kg per degree Celsius by 20 degrees Celsius?**

- A 42000 J
- B 168000 J
- C 4200 J
- D 84000 J

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4 **A gas is compressed into half its volume at constant temperature. What happens to the pressure?**

- A it halves
- B it doubles
- C it stays the same
- D it falls to zero

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

- A 40 g
- B 20 g
- C 14 g
- D 80 g

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ANSWER KEY

1. A
2. B
3. D
4. B
5. A

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