ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 14 · 5 QUESTIONS

Particle Model — Practice Test

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1 **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 2000 kg
- B 4000 kg
- C 1000 kg
- D 500 kg

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2 **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 gain energy and move more
- C they stop moving
- D they get smaller

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3 **A 4 kg mass of ice melts. The specific latent heat of fusion of ice is 100 J/kg. How much energy is needed?**

- A 400 J
- B 500 J
- C 800 J
- D 200 J

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4 **A material has a density of 5 g per cubic centimetre. What is the mass of 20 cubic centimetres of it?**

- A 100 g
- B 25 g
- C 200 g
- D 50 g

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5

What is internal energy?

A the total energy of the particles

B the energy of the container and the room

C the energy of one particle only

D the heat lost to the room

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ANSWER KEY

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

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