



HEATING GETS THEM MOVING



QUIZ

1. How does heating a substance change the behaviour of its particles?

- a) only increases their speed
- b) breaks their bonds and increases their speed
- c) only breaks their bonds

2. What is the unit of measurement of density?

- a) kilograms per metre cubed
- b) kilograms
- c) newtons

3. How would you describe the behaviour in solids?

- a) closely packed, with strong bonds and vibrating on the spot
- b) closely packed with weak bonds and able to move around
- c) spread out and moving quickly

4. What will usually happen to the volume of a substance when its temperature increases?

- a) it decreases
- b) it increases
- c) it stays the same

5. Which term describes how much energy is needed to increase the temperature of a certain amount of a substance?

- a) latent heat
- b) internal energy
- c) specific heat capacity

6. What happens to the temperature of a substance when it changes state?

- a) it stays the same
- b) it increases
- c) it decreases

7. What is the term that describes the energy needed to change the state of a substance?

- a) latent heat
- b) internal energy
- c) specific heat capacity

8. What is the name of process during which liquids turn to gases?

- a) condensing
- b) subliming
- c) boiling

9. Which particle behaviour explains how gas pressure keeps tyres inflated?

- a) particles are tightly packed and cannot be compressed
- b) particles are continuously colliding with the tyre and pushing it outwards
- c) particles spread out and stay in a fixed position

10. What will happen to gas pressure, if the temperature of the gas decreases?

- a) it stays the same
- b) it increases
- c) it decreases

ANSWERS
1) B 2) A 3) A 4) B 5) C
6) A 7) A 8) C 9) B 10) C

