

Chapter 16 Study Guide

3 Assumptions of The Kinetic Theory - Section 1

1. All matter is made of small particles
2. Those particles are in constant, random motion
3. Those particles collide with each other and the walls of their containers

4. Thermal Energy – total energy of a material's particles

4a. Kinetic Energy - energy a moving object has due to its motion

4b. Potential Energy - stored energy an object has due to its position

5. Average Kinetic Energy - temperature; how fast the particles of a substance are moving

6. Solid State – tightly packed particles

7. Melting Point – point where particles break their ordered arrangement from the solid state

7a. Heat of Fusion – energy required to reach the melting point

8. Liquids Flow - viscosity; the resistance of a liquid to flow - affected by temp. & molecular structure

9. Gas State - a liquid's particles have enough energy to escape the attractive forces of other particles in a liquid

9a. Evaporation -

10. Boiling Point - point where particles break free from each other from the liquid state

10a. Heat of Vaporization - energy required to reach the boiling point

11. Diffusion - the tendency of particles to spread evenly throughout the container/space

12. Plasma State - state of matter consisting of high-temperature gas with balanced positively and negatively charged particles.

13. Thermal Expansion – size increase of a material when its temperature increases

14. Water's Strange Expansion - water expands as it cools

15. Melting Amorphous Solids – don't have a definite melting point like glass or plastic

Section 2 - Properties of Fluids

1. FALSE, gas

2. FALSE, upward

3. FALSE, less than

4. TRUE

5. FALSE, Pascal

6. FALSE, decreases

7. TRUE

8. According to Pascal, pressure applied to a fluid is transmitted through the fluid. Not the same for gas

9. According to Archimedes...The weight of the water is $\frac{2}{3}$ the weight of the wood because $\frac{2}{3}$ of the block is what was displaced

10. The downward force decreases on top, net lifting force on the wing increases. True b/c Bernoulli's

Section 1 Kinetic Theory Study Guide Answers

Dr. R. Goel, Goyal Brothers Prakashan

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