

**Chapter**  
**Thermodynamics: Kinetic Molecular**  
**Theory and Calorimetry**

1. The **kinetic molecular theory** explains the **macroscopic** **properties** of a **substance** in terms of **microscopic** **particle** **behavior**.

2. **Substance** **properties** **such** **as** **density**, **pressure**, **temperature** **and** **volume** **change** **with** **temperature**.

**4. Kinetic Molecular Theory**

1. **Define** **the** **kinetic** **theory**.

**The** **study** **of** **macroscopic** **properties** **of** **substances**.

2. **List** **the** **fundamental** **assumptions**.

**Substance** **is** **made** **up** **of** **small** **particles** **such** **as** **atoms** **and** **molecules**.

3. **Define** **the** **postulates** **and** **conditions** **of** **kinetic** **molecular** **theory**.

**1. Substances** **are** **made** **up** **of** **small** **particles** **such** **as** **atoms** **and** **molecules** **which** **are** **in** **constant** **random** **motion** **in** **all** **directions** **and** **collide** **with** **each** **other** **and** **walls** **of** **the** **container**.

**2. The** **particles** **of** **the** **substance** **are** **in** **constant** **random** **motion** **and** **collide** **with** **each** **other** **and** **walls** **of** **the** **container** **elastically** **and** **no** **energy** **is** **lost** **during** **the** **collision**.

**3. The** **average** **kinetic** **energy** **of** **the** **particles** **is** **proportional** **to** **the** **absolute** **temperature** **of** **the** **substance**.

**4. The** **pressure** **exerted** **by** **the** **substance** **is** **due** **to** **the** **collision** **of** **the** **particles** **with** **the** **walls** **of** **the** **container**.

**5. The** **particles** **are** **in** **constant** **random** **motion**.

4. **List** **the** **fundamental** **assumptions** **of** **kinetic** **molecular** **theory**.

**1. Substances** **are** **made** **up** **of** **small** **particles** **such** **as** **atoms** **and** **molecules** **which** **are** **in** **constant** **random** **motion** **in** **all** **directions** **and** **collide** **with** **each** **other** **and** **walls** **of** **the** **container**.

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10. **The** **particles** **of** **the** **substance** **are** **in** **constant** **random** **motion** **and** **collide** **with** **each** **other** **and** **walls** **of** **the** **container** **elastically** **and** **no** **energy** **is** **lost** **during** **the** **collision**.

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12. **The** **pressure** **exerted** **by** **the** **substance** **is** **due** **to** **the** **collision** **of** **the** **particles** **with** **the** **walls** **of** **the** **container**.

13. **The** **particles** **are** **in** **constant** **random** **motion**.

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**Mark Steyvers**



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