The Particulate Nature of Matter

1.1. Kinetic Particle Theory

		0	
Solid	Liquid	Gas	
Strong intermolecular forces	Weaker intermolecular forces than solids	Almost no intermolecular forces	
Fixed lattice arrangement	No fixed arrangement; particles can move and slide over each other	Particles far apart and move quickly	
Particles vibrate in fixed position; fixed shape and volume	Particles slide; fixed volume	Random movement; no fixed shape or volume	

- When a solid is heated, the particles gain sufficient energy to overcome the strong intermolecular forces. The particles eventually can slide over each other in a more random motion- solid expands until the structure is broken at m.p.
- When a liquid is heated to its b.p, the particles overcome the relatively weaker intermolecular force to escape the liquids surface and move around in continuous rapid motion – the liquid has boiled
- In the vapor, the particles move in rapid random motion.
 This movement is due to the collision of vapor particles with air particles.
- When gaseous particles are heated in a closed environment, the increase in kinetic energy causes increased collisions with other particles as well as the walls of the container- pressure increases.

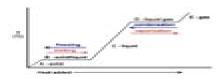
1.2. States of Matter

	-	
Banks .	Name of Street,	-

Process	Change	Heat Energy	Exo/endothermic
Melting	S ->- L	Gained	Endothermic
Boiling	L->- G	Gained	Endothermic
Condensing	G → L	Lost	Exothermic

Process	Change	Heat Energy	Exa/endothermic
Freezing.	L-> 5	Lost	Exothermic
Sublimation	5 -> G	Gained	Endothermic
Reverse sublimation	G -> 5	Lost	Exothermic

1.3. Heating Curve



1.4. Brownian motion and Diffusion

- 1. Brownian motion:
- It is the random movement of particles in a liquid or a gas caused due to collision with smaller, invisible particles
- Evidence: In liquid- Pollen grains in water In gases- Smoke in air
 - 1. Diffusion
- It is the spreading of one substance (liquid or gas) through another from a region of high concentration to a region of low concentration due to the continuous random motion of particles.
- Evidence for diffusion;
- In liquids: potassium manganate (VII) in a beaker of water
- In gases: a gas jar of air and a gas jar of bromine connected
- · Factors that affect the rate of diffusion:
- Temperature increases → rate of diffusion increases.
- Lower relative molecular mass→ rate of diffusion is higher



2. Experimental Techniques

2.1. Measurement

Variable	Unit	Apparatus
Time	min/sec	Stopwatch
Temperature	9C	Thermometer (liquid in glass, thermistor or thermocouple)
Mass	grams	Balance

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Oxidative Stress and Diseases Volodymyr Lushchak, Dmytro V. Gospodaryov, 2012-04-25 The development of hypothesis of oxidative stress in the 1980s stimulated the interest of biological and biomedical sciences that extends to this day The contributions in this book provide the reader with the knowledge accumulated to date on the involvement of reactive oxygen species in different pathologies in humans and animals The chapters are organized into sections based on specific groups of pathologies such as cardiovascular diseases diabetes cancer neuronal hormonal and systemic ones A special section highlights potential of antioxidants to protect organisms against deleterious effects of reactive species This book should appeal to many researchers who should find its information useful for advancing their fields Volcanoes Gemma Aiello, 2018-07-18 This book contains 12 chapters dealing with the studies on volcanoes their geological and geophysical setting the theoretical aspects and the numerical modeling on volcanoes the applications of volcanoes to the industry and the impact of volcanoes on the human health in different geological settings and using several techniques and methods including the volcanology the seismology the statistical methods to assess the correlation between seismic and volcanic activity modified Ripley s K function to regional seismicity the field geological survey of volcanic successions the analytical methods of petrologic analysis the petrography of the volcanic rocks with the individuation of the modal compositions of volcanic rocks and their comparison with major elements and trace elements in variation diagrams and the argon isotopic measurements performed through the peak height comparison unspiked method. The oceanographic methods have also been applied to case studies of submarine volcanic edifices located in the Canary Islands Atlantic Ocean including the sampling of the water column with a conductivity temperature depth CTD sensor rosette with 24 Niskin bottles in order to determinate key physical and chemical parameters such as the total scale pH the total dissolved inorganic carbon C the total alkalinity A the temperature the salinity and the dissolved oxygen Problems of volcanic risk mitigation have also been treated regarding the eruption disasters in Indonesia a country where a high number of people live next to the volcanoes and characterized by the lack of public awareness of the eruption disasters Petrographic methods have been successfully applied to the study of the Cretaceous magmatism of the layered gabbroids of the Chukotka region Pekulney Ridge Russia and geodynamic implications have been successfully established through geological and petrographic studies. The relationships among the mantle wedge the convective heat and mass transfer the infiltration metasomatism the zoning and the mathematical models have been applied to the comprehension of complex volcanic areas through the theoretical aspects of volcanic studies on magmatic chambers coupled with numerical modeling including finite element models FEMs in the individuation of volcanic deformations Who's Who in Science and Engineering 2008-2009 Who's Who Marquis, Marquis Who's Who, 2007-12

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