Curriculum

Class: 8 I.P. Subject: Chemistry Cycle:

Textbook: Physical Science – Glencoe Mc Graw Hill

Units	Objectives	Learning Outcomes
1- The Periodic Table	The Periodic Table	The Periodic Table
	Lesson 1: Using the periodic	Lesson 1:
	table	1- Organization of elements
	Lesson 2: Metals	in the periodic table
	Lesson 3: Non-metals and	2- Elements in groups and
	metalloids	periods
		3- Element keys
		Lesson 2:
		1-Location of metals in the
		periodic table
		2- Characteristics of metals
		3- Categories of metals:
		-Alkali metals
		-Alkaline earth metals
		- I ransition metals
		Lasson 2
		<u>Lesson 5.</u>
		and metalloids in the periodic
		table
		2- Characteristics of non-
		metals and metalloids
		3- Emphasis on
		semiconductors halogens and
		noble gases
		noore guses.

2- Elements and Chemical	Elements and Chemical	Elements and Chemical
Bonds	Bonding	Bonding
	Lesson 1: Electrons and	Lesson 1:
	energy levels	1- Electron's distance from
	Lesson 2: Compounds,	nucleus, energy and energy
	chemical formulas and	levels
	covalent bonds	2- Valence electrons
	Lesson 3: Ionic and metallic	Lesson 2.
	bolids	1- Chemical properties of
		compounds and elements they
		are made from
		2- Covalent bonds
		3- Properties of covalent
		bonds
		4- Polarity of water molecule
		Lesson 3:
		1- Ionic bonds
		2- Ions
		3- Metallic bonds
3- Chemical Reactions and	Chemical Reactions and	Chemical Reactions and
Equations	Equations	Equations
1	Lesson 1: Understanding	Lesson 1:
	chemical reactions	1- Chemical reactions
	Lesson 2: Types of chemical	2- Signs of chemical
	reactions	reactions
	Lesson 3: Energy changes	3- Reactants and products
	and chemical reactions	4- Law of conservation of
		mass
		5- Balancing chemical
		reactions
		Lesson 2:
		1- Types of chemical
		reactions
		Lesson 3:
		1- Chemical reactions and
		bond breaking and forming
		2- Endothermic and

		exothermic reactions 3- Factors affecting the rate
		of chemical reactions
		4- Catalysts
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4- Mixtures and Solubility	Mixtures and Solubility	Mixtures and Solubility
	Lesson 1: Substances and	Lesson 1:
	mixtures	1- Difference between
	Lesson 2: Properties of	substances and mixtures
	solutions	2- Differences between
		substances (elements and
		compounds)
		3- Differences between
		mixtures (homogeneous and
		heterogeneous)
		Lesson 2:
		1- Solvents and solutes
		2- Types of solutions
		3- Concentration
		4- Solubility
		5- Saturated versus
		unsaturated solutions