## Grade 9 - Unit 3 - Environmental Chemistry Concepts

## \* Medicines from the Environment \* Water Air Soil Harmful **Nutrients** Sulfur Dioxide Chemical **Human Activities** - Optimum Amount -Nitrogen Oxides **Testing** Agricultural **Pesticides** Macronutrients Carbon Monoxide (ppm) Ground--Level Ozone **Heavy Metals** Waste Micronutrients (trace) **Toxins Fuel Combustion** Organic (contain carbon) Bioindicator Chloroflorocarbons Industry Carbs, fats, proteins, nucleic acids **Species** (CFC's) Inorganic Manufacturing **Atmosphere** Greenhouse Effect **Enhanced Greenhouse Effect Global Warming** Toxicity Neutralization **LD50** Acid + Base → Salt + Water Monitoring for Quality **Chemicals Support or Harm Living Things** Nitrogen Cycle **Water Cycle** Н C 0 Environmental Si V B I K Zn Cl Ni Cr Cu S Mo Mn Mg Na Se Fe Sn Ca Carbon Cycle Oxygen cycle Ozone O<sub>3</sub> CO2 Ρ 0 **Chemical Hazards Chemical Transportation Plants Animals Environment** Biomagnification W.H.M.I.S. Labeling Diffusion Release Ingestion Osmosis Dispersion Digestion Active Transport Deposition Bioaccumulation **MSDS Disposal Sites** Absorption Dissolving Dilution Substrate

Leaching

**Photolysis** 

**Changing Chemical Concentrations** 

Biodegradation

Phytoremediation

Storage and Transportation of Dangerous / Hazardous Goods

**Government Regulations**