Science Midterm Review sheet

Grade 9, SNC1D:

Unit A: Scientific Investigation

Unit B: Ecology

1. The 3 different spheres of the planet: atmosphere, lithosphere and hydrosphere
2. The biosphere
3. Description and sustainability of the ecosystem
4. Photosynthesis and respiration
5. Food webs, food chains and ecological pyramids
6. Cycling of matter in ecosystem: water, carbon and nitrogen cycles
7. Biotic and abiotic influences on ecosystems. Defining tolerance range and optimum range, carrying capacity
8. Major terrestrial and aquatic ecosystems
9. Ecological successions: primary and secondary successions
10. Biodiversity, species richness
11. Habitat loss and fragmentation
12. Non-native species, invasive species and control
13. Pollution: acid precipitations, waste in water (oil spills, plastic waste)
14. Consumption and Resource management.

Unit C: Chemistry

1. The particle theory of matter
2. Physical Properties
3. Chemical Properties
4. Hazardous Products and Workplace Safety: WHMIS Symbols
5. Characteristic Physical Properties
6. A Table of the Elements
7. Patterns in the Periodic Table.

Review the meaning of terminology related to the 3 sections

Review your course notes

You may re-watch the videos posted in the webpage

Grade 10, SNC2D:

Unit A: Scientific Investigation

Unit B: Ecology

1. Plant and animal cells: structures, function of organelles, similarities, differences.
2. Cell division for reproduction, grow and repair
3. Cell cycle
4. Cancer, cell grow rate, causes, screening, diagnosis, treatment
5. Specialized cells
6. The animal body, levels of organization
7. Stem cells and cellular differentiation, stem cells, cord blood cell banking, tissue stem cell transplantation, regeneration
8. Digestive system, circulatory system, respiratory system, musculoskeletal system, nervous system
9. Interactions of systems
10. Systems in Plants
11. Plant Tissue Systems
12. Tissues working together
13. Plant Growth

Unit C: Chemistry

1. Properties and Changes
2. Hazardous Products and Workplace Safety: WHMIS Symbols and MSDS
3. Patterns and the Periodic Table
4. Atoms and Ions
5. Ionic Compounds
6. Name and Formula of Ionic Compounds
7. Polyatomic Ions
8. Molecules and Covalent Bonding
9. Describing Chemical Reactions
10. Conserving Mass in Chemical Reactions

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