

GRADE-10

- ✓ Chemistry- Safety in the laboratory, properties and classification of matter, chemistry in our world, models of atom, elements and compounds, families group 1,2,17,18, periodic table, metals and non metals, metalloids, hydrogen, isotopes and atomic molar mass, IUPAC, ionic compounds, compounds with multivalent metals, polyatomic atoms, molecular compounds, covalent bond, water, acids and bases, buffers, pH, neutralization, our chemical society, chemical reaction and equations, balancing equations, significant digits, mole,
- **Searth and Space Science** energy flow in global system- the biosphere, atmosphere, spheres of atmosphere, weather vs climate, effect of climate on humans, effect of climate on other organisms, climate change, changing climate, types of evidence, instrumental evidences, direct evidence, indirect evidence, tree ring analysis, ice core sampling, fossil records& pollen samples, Energy transfer through the biosphere - mechanism for change, solar energy, insolation & the angle of inclination, earth/sun relationship, angle of incidence, albedo, importance of albedo, summary of earth/sun relationship, natural greenhouse effect, greenhouse gases, net radiation budget, thermal energy transfer, conduction, convection, thermal energy transfer in the in the atmosphere, global wind patterns, thermal energy transfer in the hydrosphere, specific heat capacity, quantity of thermal energy, the hydrologic cycle and energy transfer, phase changes, heat of fusion& heat of vaporization, heating curve of water, calculating the heat of fusion of fusion or vaporization, theoretical heat of fusion and vaporation, Biomes – biomes are open systems, earth's biomes, the six biomes, tundra, taiga, deciduous forest, grassland, rainforest, desert, climatographs, use of climatographs, Climate change – changes in greenhouse gases, measuring a change in greenhouse gases, carbon sinks & carbon sources, other sources, global warming, political collaboration on climate change, impacts of climate change,
- **♂Biology** The microscope, development of cell theory, development in imaging, staining and cell research, the cell, cell tissues and systems, the leaf and photosynthesis, transport in plants, control system in plants