

# GRADE – 9

- ✓ **The science of biology** – what is science, science in context, studying life
- ✓ **The chemistry of life** – The nature of matter, properties of water, carbon compounds, chemical reactions and enzymes
- ✓ **The biosphere** -what is ecology, energy, producers and consumers, energy flow in ecosystem, cycles of matter
- ✓ **Ecosystem and communities** – climate , niche and community interactions, succession, biomes, aquatic ecosystems, populations and humans in biosphere
- ✓ **Cells** – cell structure and function , photosynthesis, cellular respiration and fermentation, cell growth and cell division
- ✓ **Genetics** – introduction to genetics , DNA, RNA and protein synthesis, human heredity, genetic engineering
- ✓ **Evolution** – Darwin’s theory of evolution, evolution of populations, classification , history of life
- ✓ **From microorganism to plants** – viruses and prokaryotes, protists and fungi , introduction to plants, plant structure and function , plant reproduction and response
- ✓ **Animals** – introduction to animals, animal evolution and diversity, animal system 1 ,2 , animal behaviour
- ✓ **The human body** – digestive and excretory system, nervous system, skeletal, muscular and integumentary system, circulatory and respiratory systems, endocrine and reproductive systems, immune systems and disease