CURRICULUM CONTENT

1. Biological molecules
   - Structure of carbohydrates, lipids and proteins and their roles in living organisms
   - Water and living organisms

2. Enzymes
   - Mode of action of enzymes
   - Factors that affect enzyme action

3. Cell membranes and transport
   - Fluid mosaic model of membrane structure
   - Movement of substances into and out of cells

4. Cell and nuclear division
   - Replication and division of nuclei and cells
   - Understanding of chromosome behavior in mitosis

5. Transport
   - The need for, and functioning of, a transport system in multi cellular plants
   - The need for, and functioning of, a transport system in mammals
   - Structure and functioning of the mammalian heart

6. Gas exchange and smoking
   - The gas exchange system
   - Smoking and smoking-related diseases