04.SCIENCE AND TECHNOLOGY

The subject of Science plays an important role in developing well-defined abilities in cognitive, affective and psychomotor domains in children. It augments the spirit of enquiry, Creativity, objectivity and esthetic sensibility.

Upper primary stage demands that number of opportunities should be provided to the students to engage them with the processes of science like observing, recording observation, drawing, tabulation, plotting graphs etc., where as the secondary stage also expects abstraction and quantitative reasoning to occupy a more central place in the teaching and learning of science. Thus, the idea of atoms and molecules being the building blocks of matter makes its appearance, as does Newton's law of Gravitation.

The present syllabus has been designed around seven broad themes via, Food, Materials, the World of the Living, How things Work, Moving Things, People and Ideas, Natural Phenomenon and Natural Resources. Special care has been taken to avoid temptation of adding too many concepts than can be comfortably learnt in the given time frame. No attempt has been made to be comprehensive.

At this stage, while science is still a common subject, the disciplines of Physics, Chemistry and Biology begin to emerge. The students should be exposed to experiences based on hands on activities as well as modes of reasoning that are typical of the subject.

Courses of Study

Chapter 1	Chemical Reactions and Equations
Chapter 2	Acids, Bases and Salts
Chapter 3	Metals and Non-metals
Chapter 4	Carbon and its Compounds
Chapter 5	Life Processes
Chapter 6	Control and Coordination
Chapter 7	How do Organisms Reproduce?
Chapter 8	Heredity
Chapter 9	Light – Reflection and Refraction
Chapter 10	The Human Eye and the Colourful World
Chapter 11	Electricity
Chapter 12	Magnetic Effects of Electric Current
Chapter 13	Our Environment