

Competency Statements

The students are expected to achieve the following competency level after studying the text book Science and Technology Part 1

Motion, Force and Machines

- * To be able to explain the scientific reasons behind various phenomenal on the basis of relationship between gravitational force and motion.
- * To be able to write formulae describing the relations between gravitation and motion and using these solve various numerical problems.

Energy

- * To adapt an environment friendly lifestyle taking into account the grave effects of energy crisis and to encourage others to adapt it.
- * To prepare, use and repair the equipments based on energy.
- * To verify the laws of current electricity and to draw conclusions based on them
- * To develop to solve numerical problems based on effects of current electricity.
- * To observe various apparatus based on effects of current electricity and explain their functions with reasons.
- * To give a scientific explanation of the images formed by lenses by drawing accurate ray diagrams.
- * To explain properties of light, the images formed by lenses and their use in different equipments used in day to day life.
- * To find out the focal length of a lens using given data.
- * To study defects of vision in human eye and their remedies
- * To draw neat and labelled diagram of human eye.

Substances in our use

- * To explain systematic classifications of elements and their positions in the periodic table.
- * To identify type of chemical reaction in two components.
- * To verify chemical reaction experimentally and draw conclusions.
- * To correct the chemicals equation which is incomplete or wrong.
- * To verify the properties of carbon compounds through experiments.
- * To take proper care while performing the experiments and handling of the apparatus considering the effects of chemical reactions on human health.
- * To guide the society through scientific attitude about the use of carbon compounds in daily life.
- * To understand the relationship between chemical reaction of metals in daily life and use them to solve various problem.

The Universe

- * To analyse the information obtained from space research and remove superstitions prevailing in society.
- * To review the contribution made by India to space research.
- * To search for future opportunities in the field of space research.

Information Communication technology (ICT)

- * To use information communication Technology in day today life.
- * To share the information about science and technology by using the internet.
- * To explain amazing that have occurred fields by using information communication technology

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