



Learning Outcomes : Standard VIII

The learner is to be provided with opportunities in pairs /groups/ individually in an inclusive setup and encouraged to ...

- Explore surroundings, natural processes, phenomena using senses viz. watching, touching, tasting, smelling, hearing.
- Pose questions and find answers through reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc.
- Record the observations during the activity, experiments, surveys, field visits, etc.
- Analyse recorded data, interpret results and draw inference / make generalisations and share findings with peers and adults.
- Exhibits creativity presenting novel ideas, new designs /patterns, improvisation, etc.
- Internalise, acquire and appreciate values such as cooperation, collaboration, honest reporting, judicious use of resources, etc .
- To do different activities by awaken different crisis /disaster improvising in vicinity.
- Understand the astronomical concepts and progress done by human about it.
- Discuss on scientific research stories and understand its importance.
- To take efforts for protection of the environment. For eg: The use of fertilizers and pesticides, to take efforts for conservation of the environment.
- To use the available raw materials using proper planning and format.
- To spread awareness about consequences of misuse of natural resources.

The learner...

- 08.72.01 differentiates materials and organisms, such as, natural and human made fibres; contact and non -contact forces; liquids as electrical conductors and insulators; plant and animal cells; viviparous and oviparous animals, on the basis of their properties, structure and functions.
- 08.72.02 classifies materials and organisms based on properties /characteristics, for example, metals and non metals; useful and harmful microorganisms; sexual and asexual reproduction; celestial objects; exhaustible and inexhaustible natural resources, etc.
- 08.72.03 conducts simple investigations to seek answers to queries, for example, What are the conditions required for combustion ? Why do we add salt and sugar in pickles and murambas? Do liquids exert equal pressure at the same depth ?
- 08.72.04 relates processes and phenomenon with causes, for example, smog formation with the presence of pollutants in air; deterioration of monuments with acid rain, etc .
- 08.72.05 explains processes and phenomenon, for example, various processes in human and animals; production and propagation of sound; chemical properties of electric current etc.
- 08.72.06 write word equation for chemical reactions, for example, reactions of metals and non-metals with air, water and acids, etc.
- 08.72.07 measures angles of incidence and reflection.
- 08.72.08 prepares slides of microorganisms; onion peel, human cheek cells, etc and describes their microscopic features.
- 08.72.09 draws labelled diagram/flow charts, for example, structure of cells, structure of heart and respiratory system, experimental set ups, etc .



- 08.72.10 constructs/prepare models using materials from surroundings and explains their working, for example, ektari, electroscope, fire extinguisher, string instruments, periscope etc.
- 08.72.11 exhibits creativity in designing, planning making use of available resources, etc.
- 08.72.12 applies learning of scientific concepts in day-to-day life, for example, purifying water; segregating biodegradable and non-biodegradable wastes; increasing crop production; using appropriate metals and non-metals for various purposes; increasing/reducing friction; challenging myths, legends and taboos regarding adolescence, etc.
- 08.72.13 discusses and appreciates stories of scientific discoveries.
- 08.72.14 makes efforts to protect environment, for example, using resources judiciously; making controlled use of fertilisers and pesticides; suggesting ways to cope with environmental hazards, etc.
- 08.72.15 sensitises others with the over utilization of natural resources.
- 08.72.16 exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices.
- 08.72.17 explains the formation of universe and the progress of humans in space technology.
- 08.72.18 uses different ICT equipments to understand the different scientific concepts.

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