

Cambridge International School, Mohal, Kullu

Curriculum – 2020-21

CLASS – VIII

Science

First Quarter

	March	April	May	June
Content	<p>*Crop production and management</p> <p>*Microorganisms Friend and foe.</p> <p>*Synthetic fibres& Plastics</p>	<p>* Cell - Structure and functions.</p> <p>*Coal and Petroleum</p> <p>*Combustion and Flame</p>	<p>*Materials: Metals and non metals</p> <p>*Conservation of Plants and animals.</p>	<p>*Reproduction in Animals. & Reaching the Age of Adolescence</p>
Outcomes	<p>*Discuss the terminology related to the crop production.</p> <p>*Identify the different tools and seed specimens.-Familiarize with steps involved in crop production.</p> <p>Activity:</p> <p>*Field Trip / Exploration</p> <p>*Smart board (video demonstration of various tools)</p> <p>*Outdoor Activity</p> <p>Assessment: Pen – paper test, Concept map , HOTS , reasoning questions, Report and Value Based Questions</p> <p>Drawing various tools.</p> <p>*-Knowledge of types of micro-organisms. Observe different types of materials having micro-organisms.</p> <p>-Categorize the micro-organisms.</p> <p>-Enlist the ways of food preservation.</p> <p>Activity:</p> <p>*Lab Activity- Showing the various slides</p> <p>*Search work-Recent outbreak of disease due to Corona virus.</p> <p>*Investigation– To find various preservative methods which were used earlier by the people and also compare them with the modern preservative methods. Checking the preservatives used in the packed food items and to check the expiry date.</p> <p>Assessment: Pen – paper test, Observing and drawing the diagrams. Project report. Concept map , HOTS, Quiz , reasoning questions, and Value Based Questions</p> <p>*-Knowledge of various synthetic fibers.</p> <p>-Analyze the difference between Synthetic & Natural fibres.</p> <p>Activity:</p> <p>*Lab activity</p> <p>*Activity using 5Rs-Say no to plastic (campaign).</p> <p>* Comparison of natural and synthetic fibers.</p> <p>Assessment: Pen – paper test, Concept map , HOTS, Quiz, Flow chart , reasoning questions, and Value Based Questions, Chart making.</p>	<p>*. Recall specific concepts, terms in cells.</p> <p>- Handle apparatus properly</p> <p>- Perform experiments</p> <p>- Differentiate between animal and plant cell and cell organelles</p> <p>- Identify & classify the types of cells & Tissues.</p> <p>Activity:</p> <p>Observation Activity -Identify the parts of a Microscope</p> <p>*Lab activities-Making the slides of the check cell and Onion cell</p> <p>*Model Making–Making the models of plant cell and animal cell.</p> <p>Assessment: Pen – paper test, Concept map , Observations of the observed slides, apparatus HOTS, Model, Flow chart , reasoning questions, and Value Based Questions.</p> <p>*Understand the formation of coal and petroleum.</p> <p>-Define petroleum refining.</p> <p>*Discuss consequences of over extraction of coal and petroleum.</p> <p>Activity:</p> <p>*Group discussion, Video demonstration, Showing movie-A documentary film on the extraction</p> <p>Assessment: Pen – paper test, Writing a paragraph on the extraction of coal and petroleum.</p> <p>Debate on the impact of extraction on the environment.</p> <p>Group discussion on the health problems faced by the people working in the coal mines. Concept map , HOTS , reasoning questions, and Value Based Questions</p> <p>*List conditions for combustion and types of combustion.</p> <p>*Outline different zones of a candle flame</p> <p>*Explain different terms.(Calorific value, Fuel efficiency etc.)</p> <p>*Enlist characteristics of a good fuel.</p> <p>Activity:</p> <p>*Class activities</p> <p>*Lab activities.</p> <p>Assessment: Pen – paper test, Observing and drawing the observed things, labeling the diagrams. Concept map , HOTS , reasoning questions, and Value Based Questions</p>	<p>*- Differentiate between metals, non-metals and alloys.</p> <p>-Practical utility of metals and non-metals.</p> <p>-Writing formulae, Equations, Balancing of equations.</p> <p>Activity:</p> <p>*Lab activities to demonstrate the chemical properties of Metals and Non-metals</p> <p>*Class activities to demonstrate the physical properties of Metals and Non-metals</p> <p>*Outdoor Activities- Observing various things around and enlisting them into Metals, Non-metals and alloys</p> <p>Assessment: Pen – paper test, Concept map , HOTS , reasoning questions, Quiz , Flow charts and Value Based Questions</p> <p>*Enlist various uses of forests</p> <p>-Understand effect of de -forestation.</p> <p>-Interpret consequences of deforestation on soil.</p> <p>-To show the need for Conservation of forests and wildlife.</p> <p>Activity:</p> <p>*Case Study of GHNP (A field trip)</p> <p>*Report in a tabular form</p> <p>Assessment: Pen – paper test, Concept map , HOTS,Writing skill-(Write an essay on Conservation of animals), reasoning questions, and Value Based Questions</p>	<p>*-Locate the glands in the body</p> <p>-Interpret the functions of glands/hormones present in the body.</p> <p>*Distinguish male/female reproductive parts.</p> <p>-Comprehend and familiarize with the changes while growing</p> <p>Activity:</p> <p>*Lab activity</p> <p>*Group Discussion on changes during adolescent age.</p> <p>*Role play on how to handle oneself in adolescent age</p> <p>*Video demonstrations</p> <p>Assessment: Pen – paper test, poem writing, Diagrams, Observation Concept map , HOTS , reasoning questions, Quiz, Flow chart and Value Based Questions</p>
	<p>Notebook Maintenance (C.W./H.W)</p> <p>Main Book: NCERT</p>			

Second Quarter

	July /August	September	October	November
Content	<p>*Force, Friction & Pressure</p> <p>*Sound</p>	<p>*Chemical effects of Current</p>	<p>*Some Natural Phenomena</p> <p>*Light</p>	<p>*Stars and the solar system</p> <p>*Pollution of Air and Water</p>
Outcomes	<p>-Comprehend the concept of Force and Friction.</p> <p>-To investigate the relation of pressure with area and fluids.</p> <p>-Application of Force, Friction and Pressure in day to day life.</p> <p>Activity: *Outdoor activities *Class activities Assessment: Pen – paper test, Observations, Concept map , HOTs , reasoning questions, and Value Based Questions</p> <p>-To identify the types of sounds around us.</p> <p>-To understand the terms pitch, frequency, loudness and amplitude in relation to sound.</p> <p>-To demonstrate the production and propagation of sound through a medium</p> <p>Activity: *Making a toy telephone. *Class activities *Playing various musical instruments. Assessment: Pen – paper test, Making tables showing the vibrating part of the musical instrument. Concept map , HOTs , reasoning questions, and Value Based Questions</p>	<p>*To understand the terms anode, cathode, electrolysis and electroplating.</p> <p>-To Examine the process of electrolysis and its applications.</p> <p>-To observe and Interpret chemical effects of current in case of electroplating.</p> <p>Activity: *Lab activities *Model making Assessment: Pen – paper test, Concept map ,Models,Observations, HOTs , reasoning questions, and Value Based Questions</p>	<p>-To-Discuss phenomenon Lightning and its after effects.</p> <p>-To explore the causes of earthquake and ways to cope with hazards due to earthquake.</p> <p>Activity: *Research work about the earthquake prone areas *Video demonstration Assessment: Pen – paper test, Concept map , HOTs , Report, reasoning questions, and Value Based Questions</p> <p>-Discuss reflection and laws of reflection.</p> <p>-Observe the phenomenon of reflection by a plane mirror</p> <p>-Comprehend multiple reflections, dispersion and working of Human eye.</p> <p>Activity: *Lab activity *Class activity *Video demonstration</p> <p>Assessment: Pen – paper test, Observations, Ray diagrams, Concept map , HOTs , reasoning questions, and Value Based Questions</p>	<p>--Observe and classify various celestial objects..</p> <p>- To identify members of solar system other than planets.</p> <p>Activity: *Power point presentation Assessment: Pen – paper test, Concept map , PPT, HOTs , Report ,reasoning questions, and Value Based Questions</p> <p>- Familiarize with the types of pollution.</p> <p>- Identify the causes of pollution and make efforts to minimize types of pollution in a locality.</p> <p>- Analyze the cause and impact of acid rain , green house effect and Global warming</p> <p>Activity: *Report on Types of Pollution created in your locality and measures that can be adopted to minimize it. Assessment: Pen – paper test, Concept map , Report, HOTs , PPT, Quiz, reasoning questions, and Value Based Questions</p>
	<p>Notebook Maintenance (C.W./H.W)</p> <p>Main Book: NCERT</p>			