## Cambridge International School,Mohal,Kullu Curriculum – 2021-22

Class – VII Subject– Science First Term

	February/March	April	Мау	June/July
;			*Reproduction In Plants	*Winds, Storms and Cyclone, Air
)	*Nutrition in Plants.	*Respiration in Organisms		(Collaboration with Social Sciences
		* 11	*Weather, Climate and	* C
	*Nutrition in Animals	* Heat	Adaptations of Animals to	* Soil
1	*Fiber To Fabric		Climate	
	Students will be able to	Students will be able to	Students will be able to:	Students will be able to:
	-Classify the modes of nutrition in	-Discuss the Mechanism of	-Differentiate between	Describe the concept of wind,
	plants.	breathing in human beings.	different modes of	atmosphere and air pressure.
	<ul> <li>Demonstrate and generalize the</li> </ul>	<ul> <li>Differentiate between</li> </ul>	reproduction in plants i.e.	
	process of photosynthesis.	aerobic and anaerobic	asexual and sexual. And	<ul> <li>Differentiate between winds,</li> </ul>
	-Improvise mineral replenishment	respiration.	vegetative propagation	storms and cyclones in relation to
	in soil.	-Identify respiratory organs	-Identify self and cross	uneven heating of earth.
	Activity:	of various animals.	pollination.	-Identify the safety measures durin
	*Lab activities: To show chlorophyll	Class-Activities:	- Describe the process of	storms and cyclones and weather
	plays an important role in starch formation.	*Students will make a	fertilization in plants. Class-Activity:	instruments.
	To demonstrate carbon dioxide is	model of lungs using a bottle, balloons and rubber	Class-Activity.	*Class-Activities:
	necessary for photosynthesis.	sheet.	*Students will be asked to	Teachers will demonstrate using
	necessary for priorosynthesis.	*Video of respiratory organs	make a list of plants ,they	bottles, Paper and balloons to show
	Assessment: Pen – paper test,	of animals like Earthworm,	observe in their surrounding	high pressure areas and low pressure
	Concept map , HOTs , reasoning	cockroach and fish is shown	which produced through	areas and students will be asked to
	questions, Quiz ,Flow chart and	during the class and then	vegetative propagation	note down their observations and
	Value Based Questions.	they will be asked to give a	*Search Work: Students will	conclusions
	observations	brief pictorial comparative	be asked to think of any five	*Students will be asked to collect
	Students will be able to	information showing	fruit bearing plants and	articles and photographs from
	-Describe and differentiate the	variation in structure of	collect information to make a	newspapers and magazine And ma
	process of nutrition in Amoeba,	respiratory organs in	table showing (i) their seed	a story on the basis of what you
	Human Beings and ruminants.	animals.	dispersal,(ii)part of seed help	learnt in chapter and the matter
	- Explain the process of digestion	*Students will be asked to	in dispersal and then will	collected by you.(Integrated with
	in human beings. Activities:	explore diseases of the	share their data during the	English)
	Activities.	respiratory system and make a brief report on it.	class.	Assessment : Pen – paper test,
1	*Lab activity: To observe effect of	Assessment : Pen – paper		Concept map , HOTs , reasoning
-	saliva on starch.	test, Concept map , HOTs,	Assessment: Pen – paper	questions, and Value Based
	*Search work: To collect	report, reasoning questions,	test, Concept map , HOTs ,	Questions
	information about the dentures of	and Value Based Questions	reasoning questions	
	different age groups in humans and			Students will be able to:
	compare with animals.	Students will be able to:	-Students will be able to	*Analyze the horizons of soil profil
	Accessment . Den mener test	*Explain the concept of	Analyze weather and climate	*Discuss the properties of soil.
	Assessment : Pen – paper test, Concept map , HOTs , reasoning	heat and use of a	of a place.	*Identify the causes of soil erosion
	questions, Report and Value	thermometer.	-Differentiate the adaptive features of animals living in	and ways of prevention.
	Based Questions	*Analyze various modes of heat transfer.	various environments.	Activities:
		Activities:	Activities:	*Students will be asked to get some
		Students will be asked to get	*Students will be asked to	soil in glass and then pour water in
	Students will be able to:	a clinical thermometer	collect information about the	leave it for some time . Then they wi
	-Explain the process of fiber into	during the class and they	meteorological department	observe horizons of soil during the
	wool	will try to read the scale of	and write a brief report about	class.
	-Describe the extraction of silk,	the thermometer along with	the things this department	*Students will be asked to put some
	cotton and jute.	the teacher.	does.	soil in a container and heat it on the
	Activity Students will make	*Teacher will demonstrate	*Students will be asked to	flame under the supervision of the
	Activity: Students will make Powerpoint presentations on	conduction of heat with hot	give a weather report of	teacher. They will observe and
	extraction of fibre into Fabric and	water and some articles like	Kullu (For 15 days) and	compare it with soil which is not
	They can choose any one fiber	steel spoon, plastic scale,	compare the weather and climate of kullu with any	heated. They will be asked to note down their observations and
	(Wool,Silk,Cotton and jute)of their	pencil etc. during the class. Students will observe	other place of India.	moisture content of soil will be
	choice.	convection current in		discussed in the class.
		boiling water.	Assessment : Pen – paper	
	(Integrated with IT)	Assessment :Test, Concept	test, Concept map , HOTs ,	Assessment: Pen – paper
		map and Observation table.	reasoning questions, Report	HOTs, Observations, Flow-chart.
	Assessment: PPT, Concept map,	1	and Value Based Questions	
	HOTS, Pen-Paper test			
	Notebook Maintenance			

	August	September	October	November
С	* Acids, Bases and Salts	*Physical And Chemical Changes	*Electric current and its effect.	* Motion And Time
O N T E N	*Transportation Animals and Plants.	*Light		*Forests:Our Lifeline
T LEARNING OUTCOMES	Students will be able to: - Differentiate between acids, bases and salts. - Observe the effect of natural indicators on food items. - Analyze the effect of Neutralization in daily life. Activities: :*Students will be asked to taste a few substances like Lemon, Curd, Amla, Baking soda , vinegar they found in their kitchen and make a table. Then there will be discussion about acid and base during the class. * The teacher will demonstrate how to make natural indicators with turmeric powder during class and then students will be asked to make indicators at their home to check acidity and basicity of food products at their home. *Students will check acidity and basicity of various substances with litmus solution during the class. Search- Work: Students will be asked to Find out the medicines to treat acidity and make a report showing their chemical composition, working as well as effect (Integration with IT) Assessment: Pen – paper test, , HOTs , , Report, observation table, Quiz, and Value Based Questions, Search work Students will be able to: -Describe Circulatory and Excretory System with functions -Differentiate between Arteries and Veins. -Analyze Importance of xylem and phloem in transportation of substances. Class-Activities: *Students will be asked to make a model of stethoscope using rubber sheet, tube and compare their heart beat at rest and after exercise. *Students will be performing activity using potato, water, sugar solution to show cell to cell movement of water during the class under the guidance of the teacher. (Integration with Art) Assessment: Pen – paper test, Concept map , HOTs , , Flowcharts, Model, quiz. Notebook Maintenance Main Book: NCERT	Students will be able to: -Analyze the changes in their surroundings. -Explain the process of galvanization . Activities: Lab-Activities -Students will be showing physical change with Ice and water during the class. -Teacher will demonstrate activity using glass bottles, water, iron nails and cooking oil and students will be asked to observe the changes in iron nails,note down in their notebook. Assessment: Pen – paper test, HOTs, reasoning questions, Quiz. Students will be able to: - Recall the rectilinear propagation of light. - Compare the images formed by different types of mirror and lenses Comprehend dispersion of light and its application Class-Activities: *Students will be asked to get one candle and pipe or chart and then they will perform activity for rectilinear propagation of light during the class and will discuss their observation. *Students will place a lighted candle in front of the mirror and try to find characteristics of images formed by a plane mirror and note down in a notebook. *Teachers will demonstrate image formation by various types of mirrors. *Students will be asked to get steel spoon. They will bring outer and inner side of spoon one by one near their face and look in to it and will compare the images formed by concave and convex mirror with plane mirror. *Students will be shown a video for images formed by lenses during the class and will try to draw ray diagrams. *Teacher will demonstrate the phenomenon of dispersion with the help of prism. *Students will be asked to blow soap bubbles and the surface of the CD in light. They will discuss their observations with the teacher. Assessment: Pen – paper test, Observations, HOTs reasoning questions.	*Students will be able to: -Identify the electric components and their symbols -Describe the heating effect of current. -Discuss about electromagnets and their use in different devices. Activities: *Students will be asked to get a cell, piece of wire, small bulb and will try to make an electrical circuit along with the teacher during the class. They will be asked to touch the bulb in both the condition (Switch off and on) and discuss the heating effect of current. *Students will be asked to make two electromagnets using Iron nails, wires and cells, paper clips under the guidance of the teacher. And will compare their strength. Assessment: Pen – paper test, Ouiz,, HOTs, reasoning questions, Model *Students will be able to: *Discuss the measurement of time using periodic events. -Analyze motion along a straight line using graph. -Calculate speed in various motions. Activities: *Students will be asked to observe periodic motion of an object with a small stone, string and iron nail from which stone with a string can be hanged freely. Students will be shown videos of objects having uniform and non uniform motion in the class and then they will try to show them on a graph. Students will be asked to collect information about time measuring devices used in ancient times and prepare a brief write up. (Integration with History and English) Assessment: Pen – paper test, HOTs, reasoning questions, model and write-up.	*Students will be able to: -Discuss the measurement of time using periodic events. -Analyze motion along a straight line using graphs. -Calculate speed in various motions. Activities: *Students will be asked to observe periodic motion of an object with a small stone, string and iron nail from which stone with a string can be hanged freely. Students will be shown videos of objects having uniform and non uniform motion in the class and then they will try to show them on a graph. Students will be asked to collect information about time measuring devices used in ancient times and prepare a brief write up. (Integration with History and English) Assessment: Pen – paper test, HOTs, reasoning questions, model and write-up. *Students will be able to: -Enlist the importance of forest in our daily lives. -Classify different layers of forest. -Analyze the importance of humus and decomposers in the forest. Activities: Role Play(Importance of forest. Jigsaw (different layers of forest. Jigsaw (different layers of forest. Activities: Role Play(Importance of forest. Jigsaw (different layers of forest. -Student layers of forest. -Student layers of forest. -Student layers of forest. -Classify different layers of fores