					Espalier Heritage School				
Grade					Annual Planner 2020-21		Created By:		
VIII	Subject:	Science					Rajeshwari Shetty		
Sr. No	Chapter-1 Crop Production and	learning objectives/ Subtopic *Crops and difference between Kharf and Rabi crops *Basic crop production practices. *Preparation of soil *Sowing of see *Addition of manura and fertilisers *Irrigation *Weeding and crop protection *Harvesting, Threshing and *Weeding and crop protection *Audition of manura and fertilisers *Animal husbandry *Animal husbandry	Methodology 1) Demonstration cum Explanation. 2) Technology based 3)Project Based	Pedagogical methods *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 trips, etc. analyse recorded data, interpret results and draw inference/ make generalisations and share findings with peers and adults ass. **eithids creativity presentation; etc. **internalise, acquire and appreciate values such as cooperation, collaboration, honest reporting, judicious use of resources, etc.	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. Classifies materials and organisms based on properties; of-tameteristies, e.g., metals and control of the control of	Teaching Aid Farm, PPT, crops, seeds		Is the lesson worksheet ready Reff.books with pg.no. No. Road fecture required NCERT Textbook. Science Quest, Galaxy & Lakhmus Kingh (if available)	s Class Activities (Diagrams) Map work Students will sow seeds and grow crops, Plants. Keep one in Check growth of manures, fertilisers, and test observation, Observe the growth of Plants.
2		Natural fibres based on their proporties. Enlist different types of synthetic fibres and their characteristics in order to explain their specific use: List characteristics of plastic is and the characteristic of plastic is and thermostim plastics. Examine suggest the characteristics of plastic or plastic is suitability in a variety of applications. Differentials between plastics based on their ability to decompose in order to explain why plastics are a threat to the environment.	cum demonstration based 4) Technology based	performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity, experiments, surveys, field trips, etc. analyse recorded data, interpret results and draw inference make generalisations and sahare findings with peres and adults e-enhalt centrity presenting novel ideas, e	classifies materials such as, natural and human made fibres; different types of symthetic fibres based on their phase control of the control	PPT, Sample of cloth pieces, Video,	and AV room	Yes NCERT Textbook. Science Ouest, Galaxy & Lakhmir Singh (if available)	Tensile strength of Nylon, Check the water absorption capacity of synthetic fibres and natural fibres
3	metals	Differentiate between the commonly known materials based on their ability to be bent and formed into sheets, be drawn into wires, ability to produce ringing sound, ability to produce ringing sound, ability to produce ringing sound, ability to conduct electricity, ability to conduct learn for order to define various properties of metal. Categorize the commonly known conduct to explain their physical properties. The commonly known conduct to explain their physical properties. The commonly known conducts to explain their physical properties. The conduction of metals and non-metals with oxygen, water, acids and bases in order to distinguish between them. Apply the concept of reactivity of a metal to predict if a given metal will displace another metal in a displacement reaction. Predict the utility of a given material for the production of the produ	Lecture cum Demonstration 3) Technology based 4) Laboratory Method	 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 trips, etc. analyse recorded data, interpret results and draw inference make generalisations and share findings with peers and adults sale of the control of the control of the evolution of the control of the control of the evolution of the control of the control of the such as cooperation, collaboration, bnest reporting, judicious use of resources, etc 	differentiates materials such as, metals and nonmetals. classifies materials based on their properties/ characteristics, e.g., metals and non-metals investigations to seek answers to queries e.g. effect of air and water on different metallic and non-metallic substances, nature of metallic and non-metallic oxides, etc. relates processes with the control of the control different metallic oxides, etc. relates processes and phenomenon such as musting of iron, loss of gold during cleaning of gold jewelry etc whites word cquation for chemical reactions of metals and non-metalls with air, water and acids, etc. draws labelled diagram of activities, simple investigations related to metals and non-metals with air, water and acids, etc. draws labelled diagram of activities, simple investigations related to metals and non-metals with air, water and acids, etc. draws labelled diagram of sethific concepts in day to day life, e.g., purifying water, using appropriate metals and non-metals related to metals and non-metals responsements of the control responsements related to metals and non-metals responsements related to metals related to metals and non-metals responsements related to metals related to	Metals, Non-Metals, Water, HCJ, 182SO4, bunsen burner, coppersulfate, zinc sulphate	Laboratory, Classroom 3	NO NCERT Textbox Galaxy & Lakhmir Singh (if available)	Testing metals reaction with oxygen, properties of water, acid, base, Displacement reaction metals Make a comic scription metals and non- metals
4		Classify natural resources based on their ability to replenish in order to distinguish between inchaustills and exhaustible natural resources Discuss the process of formation of coal to explain why coal is an occupiant with the coal to the coal t	cum demonstration based 4) Technology based	• 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 trips, etc. analyse recorded data, interpret results and draw inference/ make generalisations and share findings with peers and adults • exhibit creativity presenting novel ideas, new designs platters, improvisation, etc. where the complete states are cooperation, collaboration, bonest reporting, judicious use of resources, etc.	and prejudices differentiates different petroleum products classifies materials as exhaustible and inexhaustible and inexhaustible and petroleum resources. relates processes and phenomenon related to formation of petroleum explains processes and phenomenon, related to draws labelled diagram/ flow charts related to formation of petroleum and its refining. discusses and appreciates stories of scientific discoveries such as discovery of Coal. constructs models using materials from surroundings and designing planning making use of available resources, etc. exhibits values of honesty, objectivity cooperation, freedom from fear and prejudices	Two transparent plastic bottles with bottle caps, one plastic straws, Scissors, glue, cello tape, PPT, Video	Laboratory, Classroom N	No NCERT Textbook. Science Quest, Galaxy & Lakhmir Singh (if available)	Students will discuss about the resources and how to preserve them Have discussion on the role of natural resources on the group created by your teacher.

5 Chapter 6: Combustion and Flame	Explain the process of combustion in 1) Inqu		pose questions and find answers through		Candle, beaker, wooden	Laboratory, Classroom No	NCERT Textbook, 15	Student will be show Make a model of fire
	order to describe the role of fuel and comparing the process as necessary conditions for combustion to take place. Ignition temperature to explain why minimum temperature to explain why minimum temperature is required for a substance to each fire. Compile and list the commonly known inflammable substances to make the conditions necessary for producing fire to discover how combustible materials can be prevented from eathering the fire. Differentiate between the type of combustion taking place in gas stove, burning of phosphorus and bursting of firerearchers to assess rapid combustion. The producing fire to discover how the combustion and explosion combustion and explosion combustion and explosion. Explain the different parts of flame in order to explain why goldsmiths blow the outermost zone of a flame to melt gold and silver. Compare the calorific value of commonly used fuel to examine fuel flictiency. List harmful by-products of burning fuel to be aware of its harmful effects on individuals and environment such as global warming and acid rains	emonstration based 4)	reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity, experiments, surveys, field tips, etc. analyse recorded dain, interper results and analyse recorded dain, interper results and adults are findings with peers and adults exhibit 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	differentiates combustible and non combustion of combustic combustion of combustic combustion of combustion of combustion of combustion of c	block, magnesium ribbon, PPT, Video		Science Quest, Gallavy & Lakhmri Singh (if available)	that air is essential for extinguisher by burning.Burning of using household magnesium, Heating od water in a pump of water in
6 Chapter 11: Force and pressure	motion of object as push or pull in cum de	emonstration based 4) ology based	 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 trps, etc. analyse recorded data, interper results and draw inference made generalisations and share findings with peers and adults share findings with peers and adults same we design-palters, improvisation, etc. internalise, acquire and appreciate values such as cooperation, collaboration, honest reporting, judicious use of resources, etc 	differentiates combustible and non combustion of the non-combustion of the n	PPT, Video, Tyre, Magnets, peniclis, sraw, nail, balloon, bottle etc	Laboratory, Classroom No	NCERT Textbook. 17 Science Quest, Glaby & Lakhmir Singh (if available)	Sindents will know about magnetic work magdeburgs static force, air exerts pressure, Magdeburgs hemisphere
7 Chapter 2: Microorganisms-Friend at Foe	nd Recall four major categories of microorganisms (bacteria, fungi, protozoa, algae) but the stable of the stable	emonstration based 4) ology based 5) atory based	pose questions and find answers through reflection, discussion, designing and reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. during the activity, experiments, arrays, field trips, etc. analyse recorded data, interpret results and draw inference "make generalisations and share findings with peers and adults e-chibit 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	Informatia between microorganisms and viruses to establish that viruses reproduce only in the host bacteria, fungi, protozoa, adjust bacteria, protozoa, proto	PPT, Video, Slides, Yeast, Soil sample, Nitrogen cycle	Laboratory, Classroom No	NCERT Textbook, Science Quest, Galaxy & Lakhum Singh (if available) 18	Students will observe the growth the sildes under the microscope
8 Chapter 7: Conservation of Plants and Animals	on its rampant existence despite forest being essential to life Describe how droughts are caused to elaborate the consequence of deforestation Describe the process of existing the consequence of deforestation of the consequence of deforestation of the consequence of deforestation lists some famous biosphere and wildlife ancharacters to describe different mechanisms through which governments protect and conserve forest and wildlife and conserve forest and wildlife in the consequence of the consequence o	emonstration based 4)	reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity, experiments, surveys, field trips, etc. analyse recorded data, interpet results and the state of	List causes of deforestation to reflect on its rampant existence despite forest being essential to life Describe how droughts are caused to elaborate the consequence of deforestation Describe the process of desertification to explain the consequence of efforestation Interpret the importance of New Data Book and the Consequence of the	PPT, Ground, Plants	Classroom, Ground, National Park No	NCERT Textbook, Science Quest, Galaxy & Lakhmir Singh (if available)	Students will observe observe the harmful elects of deforestation leading to soil erosion
9 Chapter 8: Cell - Structure and Function	Classify animals based on their cell number, shape and size in order to Lecture	re cum Demonstration chnology based	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 trips, etc. analyse recorded data, interpret results and draw inference make generalisations and share findings with peers and adults - exhibit creativity presenting novel ideas, ence we design-spatieterss, improvisation, etc internalise, acquire and appreciate values such as cooperation, ollaboration, honest reporting, judicious use of resources, etc	List the different parts and functions of a typical cell in order to appreciate the unit structure in an organism Distinguish between plant and animal cells to explain the function of cell wall Draws labelled diagram / flow charts, e.g., structure of cell,	PPT, Slides, Video	Classroom, Slides No	NCERT Textbook, Science Quest, Galaxy & Lakhum Singh (if available)	Students will observe the slides under the microscope Create a basic cell model for animals or plants

10	Chapter 9: Reproduction in Animals	Differentiate between asexual and sexual reproduction in order to list two most of the production of reproduction Differentiate between ex cells corresponding to parent in order to explain male and female gamete Describe the process of fertilization in order to explain zell to the process of fertilization in order to explain zell to the process of sensitive to the process of sensitive to the process of embryo and feetus formation to explain how an offectus formation to explain how an offectus formation to explain how an offectus formation to explain how an interest of the process of embryo and feetus formation to explain how an interest of the process of embryo and feetus formation to explain how an interest of the process of embryo and feetus formation to explain moders of the process of embryo and feetus formation. Describe the life cycle of frogs from eggs to adult frogs in order to explain metamorphosis. Differentiate between asexual and actual reproduction in order to list two modes of reproduction in order to explain male and female gamete Describe the process of entirity and female gamete Describe the process of entiry to describe two differentiate between internal and external fertilization in order to explain moder to explain moder to explain moder to explain moders of reproduction Differentiate between internal and citernal fertilization in animals Describe the process of entiry of the process of entiry to give birth or lay eggs to differentiate between internal and extual reproduction in order to explain metamorphosis. Differentiate between asexual and sexual reproduction in order to explain metamorphosis. Differentiate between internal and external fertilization in order to explain median moder of fertilization in animals Describe the process of embryo and foetus formation to explain how an individual is formed inside mother's wornb of the politic reproduction in order to explain median moder of the politic reproduction in order to explain median and external fertilization in order to explain mal	1) Inquiry based 2) Lecture cum demonstration based 4) Technology based	- pose questions and find answers through reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. ing the activity, record the observations of the control of th	Differentiates viviparous and oviparous animals, Classifies sexual and asexual reproduction; Explains processes and phenomena in order to relate to science behind develop scientific thinking skills (such as, reproduction in human and animals; Draws labelled diagram / flow charts, human reproductive organs; Differentiates viviparous and oviparous animals, Classifies sexual and asexual reproduction; Explains processes and phenomena in order to relate to science behind develop scientific thinking skills (such as, reproduction in human and animals; Draws labelled diagram / flow charts, human reproductive organs; Differentiates viviparous and oviparous animals, Classifies sexual and asexual reproduction; Explains processes and performent of the relation of the phenomena in order to relate to science behind the phenomena processes and the phenomena processes and the phenomena processes and animals; Oraws labelled diagram / flow charts, human reproductive organs; Draws labelled diagram / flow charts, human reproductive organs; Draws labelled diagram / flow charts, human reproductive organs;	PPT, model of reproductive organs, Video	Laboratory, Classroom	No	NCERT Textbook, Science Quest, Galaxy & Lakhmr Singh (if available)	Students will Classify commonly known animals and plants based on how they reproduce
11	Chapter 10: Reaching the Age of Adolescence	Inclamorphosis Enumerate different variations that take place in body at puberty to explain the effect of adolescence on changing effect of adolescence on changing Explain the effects of hormones in the development of secondary sexual characteristics in order to illustrate growth during puberty Elaborate the functions of hormones secreted by endocrine glands in order to explain the growth in male and carried to the effect of the e	1) Kinesthetic method 2) Lecture cum Demonstration 3) Technology based	pose questions and find answers through reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observation field rape, etc. analyse recorded data, interpret results and draw inference, male generalisations and share findings with peers and adults e-schibit creativity presenting novel ideas, new designs/patterns, improvisation, etc. internalise, eagure and appreciate values such as cooperation, collaboration, honest reporting, judicious use of resources, etc	Conducts simple investigations on his/her own in order to seek answers to queries: (such as, what are the conditions required for combustion? Why do we add soil and sugar in pickes and murabbes? (such as the supplementation of the same depth?) Explaints processes and plenomena in order to relate to science behind the phenomena/processes and develop scientific thinking skills: Applies learning of scientific concepts in daily lifereal life situations in order to solve problems	PPT, Video, Balanced dier	Laboratory, Classroom	No	NCERT Textbook, Science Quest, Galaxy & Lakhmr Singh (if available)	Students will Observe changes in human beings at different stages in life
12	Chapter 12: Friction	Analyse situations where resistance is felt while applying force to move a body in order to explain friction force where acts in opposite direction Analyse and identify number of bodies interacting when friction force is felt in order to establish that the state of	1) Kinestheis method 2) Lecture cum Demonstration 3) Technology based	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 trips, etc. analyse recorded data, interpret results and draw inference make generalisations and share findings with prees and adults share findings with prees and adults where the contraction of the contrac	Differentiales contact and noncontact forces; Conducts simple investigations on his/her own in order to seek answers to queries Applies learning of scientific concepts in daily life/real life situations in order to seek once when the problems/give solutions/take preventive measures/etc.	PPt, Video, Spring Balance, Wooden block,	Laboratory, Classroom	No	NCERT Textbook, Science Quest, Gallay & Lakhmir Singh (if available)	Students will push an pull the object, Measure the weight, Motion of book on rollers
13	Chapter 13: Sound	List examples of body moving in to and fro motion in order to explain vibrating. List examples of body moving in to and fro motion in order to explain vibrating instrument and identify parts instrument and identify parts of human body that produces sound List and identify functions of parts of human body that produces sound in order to explain the process of sound produces of the	1) Kinesthetic method 2) Lecture cum Demonstration 3) Technology based	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, record the observations during the activity, record the constraints of the control of the cont	Explain process of propagation of sound; Explains processes and phenomena in order to relate to science behind the phenomena processes and develop scientific thinking skills. Constructs models using materials from in order to demonstrate scientific knowledge and understanding of how it works	PPT, Video, Utensils, Ekatara,	Laboratory, Classroom	No	NCERT Textbook, Science Quest, Galaxy & Lakhmir Singh (if available)	Students will bang the metal pan, work on vocal cords What is vibration? How does sound travel?
14	Chapter 14: Chemicals Effects of Electrical Current	it	Ninesthetic method 2) Lecture cum Demonstration Technology based	- pose questions and find answers through reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. ring the activity, experiments, surveys, field trips, etc. analyse recorded data, interper results and the state of the state of the state of the state of the state findings with peers and adults exhibit creativity presenting novel ideas, new designs/patterns, improvision, etc. *internatise, acquire and appreciate values such as cooperation, collaboration, honest reporting, judicious use of resources, etc	The students will be able to recall example of good & bad conductors. The students will be able to recognize liquid that conduct electricity. The students will be able to discriminate between liquids which are good &bad conductors. The students will be able to classify liquid materials as good & bad conductors.	LED, Match box, magnet carbon rod, copper plate	Laboratory, Classroom	No	NCERT Textbook, Science Quest, Galaxy & Lakhmr Singh (if available)	Students will make simple circuit, there is good and poor some deflection in the compass needle) electricity in order to explain that almost all materials can conducte electricity under certain conditions.

15	Chapter15: Some Natural Phenomena R	Recall examples of visible sparks in	1) Kinesthetic method 2)	pose questions and find answers through	Explains processes and phenomenon, Explains processes and phenomena in	n PPT, Video, Balloon,	Laboratory, Classroom,	No	NCERT Textbook, 16	Students check	Do an earthquake
		order to explain the phenomenon of lightning	Lecture cum Demonstration 3) Technology based	reflection, discussion, designing and performing appropriate activities, role plays,	order to relate to science behind the	electroscope	Ground		Science Quest, Galaxy & Lakhmir Singh (if	whether like poles attract or repel	drill
	/	Analyse if two charged objects	, , , , , , , , , , , , , , , , , , , ,	debates, use of ICT, etc.	phenomena/processes and develop scientific				available)		
	at	attract or repel each other in order to establish that similar charge		record the observations during the activity, experiments, surveys, field trips, etc.	thinking skills:						
	re	epel each other while		analyse recorded data, interpret results and							
	0 0	opposite charge attract each other Examine the working of		draw inference/ make generalisations and share findings with peers and adults							
	el	electroscope to detect if an object is		 exhibit creativity presenting novel ideas, 							
	l c	charged or not in order to apply the concept of similar charge		new designs/patterns, improvisation, etc. • internalise, acquire and appreciate values							
		objects repel each other		internalise, acquire and appreciate values such as cooperation, collaboration, honest							
	I I	Investigate the process of earthing in		reporting, judicious use of resources, etc							
	l oi	order to assess the process of transferring charge from a									
	ch	harged object to earth in order to									
		explain the advantages of earthing of electric circuits in									
	l h	households									
	I I	Examine the sequence of lightening occurring in clouds in order									
	t to	to explain the process of electric									
	di	lischarge in nature									
		Lightning safety Predict how lightning travels from									
	th	he cloud to the ground in									
	l o	order to describe the measures that nust be taken during									
	li li	lightning									
]	Justify the phenomenon of earthquake in order to explain that									
	l ti	the ground beneath us is not static									
		Illustrate with a diagram the novement of earth in order to									
		explain how earthquakes cause									
	ts	sunami									
	l ar	Identify and explain seismic zones round earth to explain why									
	s	some areas are more affected by									
16	Chapter 16: Light Id	arthquakes than others dentify and calculate the angles of	1) Kinesthetic method 2)	pose questions and find answers through	exhibits creativity in designing, planning, making use of available	PPT, Mirror, Video,	Laboratory, Classroom,	No	NCERT Textbook, 17	Culculate the in side	Make a Kaleidoscope
10	in	ncidence and reflection of a ray	Lecture cum Demonstration	reflection, discussion, designing and	resources, etc.	Protactor, Kaleidoscope,	Ground Classroom,	110	Science Quest, Galaxy &	and reflected angle	issake a Kaleidoscope
	0	of light to illustrate the laws of	3) Technology based	performing appropriate activities, role plays,	 exhibits values of honesty, objectivity, cooperation, freedom from fear 	Bird in cage			Lakhmir Singh (if	after striking the	
		eflection in real life. Conclude the law of reflection and		debates, use of ICT, etc. record the observations during the activity,	and prejudices. • measures angles of incidence and reflection, etc.				available)	mirror with a ray of light	
	re	epresent it by drawing a ray		experiments, surveys, field trips, etc.	• formation of multiple images;					to illustrate the law	
		diagram identifying incident ray, effected ray and the normal		analyse recorded data, interpret results and draw inference/ make generalisations and						of reflection in real life	
	I I	Illustrate with a line diagram how		share findings with peers and adults							
	in	mages invert when reflecting from a mirror in order to see the		 exhibit creativity presenting novel ideas, 							
	ap	pplications of the laws of		new designs/patterns, improvisation, etc. • internalise, acquire and appreciate values							
	l p	reflection Distinguish between reflection from		such as cooperation, collaboration, honest reporting, judicious use of resources, etc							
	l a	rough and a smooth		reporting, judicious use of resources, etc							
	l n	reflecting surface in order to									
	di	lifferentiate between diffused and regular reflection									
	E	Establish that light can reflect									
	m	nultiple time with a set of mirrors by constructing a kaleidoscope									
		Describe various parts of human eye									
	ar	and identify their functions in									
	l o	order to explain how humans see object in presence of light									
		Compare and contrast between blind									
	sp	pot and field of view in order									
	th	to explain how humans see object in he presence of light									
		Care of eyes Recommend different									
		neasures for protecting eyes when a									1
		problem is falt in order to actablish									1
	th	problem is felt in order to establish he importance of eye care									
	th	he importance of eye care Visually impaired person									
	th V	he importance of eye care Visually impaired person can read and write									
	th N	he importance of eye care Visually impaired person can read and write Describe the braille system in order o explain how people with									
	th V C E to	he importance of eye care Visually impaired person can read and write Describe the braille system in order									
17	th N C E to to	he importance of eye care Visually impaired person can read and write Describe the braille system in order o explain how people with visual impairment manage to read	1) Kinesthetic method 2)	* pose questions and find answers through	Applies learning of scientific concepts in daily	Dripper, Video, PPT, Top	Laboratory, Classroom	No	NCERT Textbook, 12	Students will known	Visit to planteary and
17	th N Chapter 17: Stars and the Solar System L	he importance of eye care Visually impaired person can read and write Describe the braille system in order o explain how people with visual impairment manage to read and write List commonly seen objects in the ky as celestial objects are	Lecture cum Demonstration	reflection, discussion, designing and	life/real life situations in order to solve	Dripper, Video, PPT, Top	Laboratory, Classroom	No	Science Quest, Galaxy &	Students will known about the planets	make your own solar
17	the control of the co	he importance of eye care Visually impaired person can read and write Describe the braille system in order to explain how people with visual impairment manage to read and write ist commonly seen objects in the ky as celestial objects are Explain with diagram the different bhases of moon in order to		reflection, discussion, designing and performing appropriate activities, role plays,	life/real life situations in order to solve problems/give solutions/take preventive	Dripper, Video, PPT, Top	Laboratory, Classroom		Science Quest, Galaxy & Lakhmir Singh (if		
17	the control of the co	he importance of eye care Visually impaired person can read and write Describe the braille system in order o explain how people with visual impairment manage to read and write List commonly seen objects in the ky as celestial objects are	Lecture cum Demonstration	reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity,	life/real life situations in order to solve	Dripper, Video, PPT, Top	Laboratory, Classroom		Science Quest, Galaxy &		make your own solar
17	th Chapter 17: Stars and the Solar System L sh	he importance of cye care Visually impaired person can read and write Describe the brille system in order o explain how people with visual impairment manage to read and write ist commonly seen objects in the ky as celestial objects are Explain with diagram the different hauses of moon in order to explain that moon rotates around arth	Lecture cum Demonstration	reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity, experiments, surveys, field trips, etc.	life/real life situations in order to solve problems/give solutions/take preventive	Dripper, Video, PPT, Top	Laboratory, Classroom		Science Quest, Galaxy & Lakhmir Singh (if		make your own solar
17	the control of the co	he importance of eye care visually impaired person can read and write Describe the braille system in order o explain how people with visual impairment manage to read and write state commonly seen objects in the ky as celestial objects are Explain with diagram the different hases of moon in order to make the control of the control of the control of the control Categorize the name of commonly mown group of sairs in order to	Lecture cum Demonstration	reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity, experiments, surveys, field trips, etc. analyse recorded data, interpret results and draw inference, make generalisations and	life/real life situations in order to solve problems/give solutions/take preventive	Dripper, Video, PPT, Top	Laboratory, Classroom		Science Quest, Galaxy & Lakhmir Singh (if		make your own solar
17	Chapter 17: Stars and the Solar System Chapter 16: Stars and the Solar System Chapter 17: Stars and the Solar System Kanada Sanada S	he importance of eye care visually impaired person can read and write Describe the braille system in order o explain how people with visual impairment manage to read and write visual commonly seen objects in the ky as celestial objects are Explain with diagram the different shases of moon in order to explain that moon rotates around cattle Categorize the name of commonly nown group of stars in order to explain that constellations are a	Lecture cum Demonstration	reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity, experiments, surveys, field trips, etc. analyse recorded data, interpret results and draw inference/ make generalisations and share findings with peers and adults	life/real life situations in order to solve problems/give solutions/take preventive	Dripper, Video, PPT, Top	Laboratory, Classroom		Science Quest, Galaxy & Lakhmir Singh (if		make your own solar
17	Chapter 17: Stars and the Solar System Chapter 16: Stars and the Solar System Kanada Salar System Kanada System K	he importance of eye care visually impaired person can read and write Describe the braille system in order o explain how people with visual impairment manage to read and write visual impairment manage to read its accommonly seen objects in the ky as celestial objects are Explain with diagram the different bases of moon in order to explain that moon rotates around artification of the commonly categorize the name of commonly mown group of stars in order to explain that constellations are a group of stars with recognisable shape.	Lecture cum Demonstration	reflection, discussion, designing and performing appropriate activities, role plays, debates, use of ICT, etc. record the observations during the activity, experiments, surveys, field trips, etc. analyse recorded data, interpret results and draw inference/ make generalisations and share findings with peers and adults exhibit creativity presenting novel ideas, new designs/pattens, improvisation, etc.	life/real life situations in order to solve problems/give solutions/take preventive	Dripper, Video, PPT, Top	Laboratory, Classroom		Science Quest, Galaxy & Lakhmir Singh (if		make your own solar
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