HANSRAJ MODEL SCHOOL PUNJABI BAGH, NEW DELHI CURRICULUM PLAN

SESSION: 2024-2025

CLASS: V

SUBJECT: SCIENCE

MONTH	TOPIC / SUB-TOPICS	LEARNING INTENTIONS (LEARNING OUTCOMES + COMPETENCIES)	ACTIVITIES	ASSIGNMENTS
APRIL	MY BODY	The learners		A-1 DEFINITIONS
	(SDG 5,10) BREATHING SYSTEM	explore the importance of various exercises. appraise the students about the terms like organ and system. analyse the importance and	Model of Breathing system using straw, balloon and waste bottle	Organ, system, breathing, vertebrae, floating ribs, joint, optic nerve, ligament, cartilage
	SKELETAL SYSTEM	functions of various organs involved in breathing system and skeletal system. construct the breathing system using waste material	Robotic Hand- using straw	A-2 QD (2,3) + QE(1) A-3 Web-chart on types of joints. A-4 QE (2,3,4)
	JOINTS	inculcate awareness regarding the importance of joints. recognize different types of joints, present in our body. distinguish between various joints and compare them	Making of movable joints using waste material	A-5 QD (5) + QE (6) A-6 Tabular chart on sense organs of animals with their functions
APRIL		according to their function and location.		A-7 QABC in bk

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	SENSE ORGANS	design the various joints according to their movement. compare and contrast sense organs in humans and various animals.		A-8 VBQ IN BK
MAY	PLANTS	understand the importance of	Specimen observation	A-9 DEFINITIONS
	SDG 13,15	seed. observe the structure of seed compare and differentiate between monocot and dicot seed	-Structure of seed using soaked bean seed	Photosynthesis, stomata, chlorophyll, insectivorous plants, vegetative reproduction, seed germination, seedling, seed
	Photosynthesis	demonstrate the stages of germination of seed through experimentation. enlist the conditions required for germination of seed	Germination of Seeds	dispersal A-10 QD (2,4)
	Reproduction in plants	illustrate the relationship between light & Photosynthesis.		A-11 QE (1,2)
		deduce the adaptations in carnivorous plants. interpret the role of chlorophyll in plants.	Chlorophyll painting using leaves.	A-12 WEB CHART on types of reproduction in plants +QE(3)

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MAY	Seed dispersal	To identify and classify the various parts of the plant used for reproduction classify the ways of seed dispersal into natural and human made ways. deduce the importance of agricultural practices in seed dispersal. categorize plants that disperse their seeds through wind ,water, insects, animals and bursting	Game of seed dispersal	A-14 QABC IN BK A-15 VBQ IN BK
JULY	L- FORESTS (SDG 12,13,15) Advantages of Forests Forest Products	define Forest and underline its importance state the advantages of a forest. sensitize and describe various forest products and state their uses.	Daily Pulse : Your News, Your Voice- Design your own newspaper on topic importance of forest conservation	Research work Healing herbs : Nature's Pharmacy National parks and wildlife

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	Deforestation	justify the importance of Forest conservation Act. explain deforestation and its harmful effects	Poster Making on Save Forest	sanctuaries near and around Delhi
	How to protect Forests	suggest steps to take good care of forests. differentiate between national parks and wild life sanctuaries.	Presentation on deforestation and its harmful effects	
JULY	ANIMALS OUR FRIENDS (SDG 12,15) Usefulness of animals Wildlife Dangers of wildlife trade Protection of wildlife Food chain and food web	state the usefulness of a few animals seen in our day-to-day life. distinguish between extinct animals and endangered animals. enlist various parts of animals used in illegal trading express the importance of wildlife (protection) Act.	FOOD CHAIN/ FOOD WEB (USING EMPTY CUPS) Poster making on wildlife	A-16 DEFINITIONS Wildlife, draught animals, species, food chain, food web A-17 QD(3)+ QE(1)+EQ Why do some wild animals become man eaters? A-18 QE (2,3,4) A-19 QE(5)-TABULAR CHART + EQ A-20 QABC IN BK

AUGUST FOOD AND HEALTH (SDG 2,3) Healthy eating pyramid Healthy eating pink food. choose the healthy way of living disease free. differentiate between SOLE PLAY on Deficiency Diseases. A-22 DEFINITIO Nutrients, health, do communicable diseases malnutrition, haem balanced diet. A-23 QD (2,4,5) A-24 QE (2,3,5) A-25 EQ1-Write the	
importance of different nutrients and their functions. Compare and contrast between good eating habits over harmful effects of consuming junk food. Choose the healthy way of living disease free. Deficiency Diseases. Nutrients, health, do communicable diseases malnutrition, haem balanced diet. A-23 QD (2,4,5) A-24 QE (2,3,5)	
Healthy eating pyramid Healthy eating pyramid Compare and contrast between good eating habits over harmful effects of consuming junk food. Choose the healthy way of living disease free. Deficiency Diseases. Communicable diseases malnutrition, haem balanced diet. A-23 QD (2,4,5) NUKKAD NATAK A-24 QE (2,3,5)	ĪS-
Healthy eating pyramid Compare and contrast between good eating habits over harmful effects of consuming junk food. Choose the healthy way of living disease free. Compare and contrast between good eating habits over malnutrition, haem balanced diet. A-23 QD (2,4,5) A-24 QE (2,3,5)	ases, non-
living disease free. NUKKAD NATAK A-24 QE (2,3,5)	,
differentiate between Communicable diseases A-25 EO1-Write the	
Health communicable and non- communicable diseases. explore the various factors responsible for communication of diseases. EQ2- Web chart or which communication symptoms of Prote Carbohydrate defict disease EQ2- Web chart or which communication spread	n- ency ways by
Diseases A-26 QABC IN B	

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		observe the preventive measures to keep oneself healthy		A-27 VBQ IN BK
AUGUST	IMPORTANCE OF WATER (SDG 14,15,16) Importance of water for animals and plants ground water water supply	the importance of water for plants, humans and animals. inculcate awareness regarding ground water and ways to obtain them. acquire the knowledge of supply of water to the cities	ACTIVITY PROJECT – Collect information on STEPWELLS in and around Delhi. Collate this information and present artistically on A-4 size sheets	A-28 DEFINITIONS Aquatic plants, aquatic animals, amphibious animals, ground water, step-well. A-29 QE (1,2,3,4,6) + EQ-How does water help in absorption of nutrients in plants? A-30 QABC IN BK A-31 VBQ IN BK
SEPTEMBER	SPOILAGE AND WASTAGE OF FOOD AND FOOD PRESERVATION (SDG 2,3)	understand the importance of food outline ways to preserve food.	PROJECT - Explore the Indian traditional ways of preserving food	A-1 DEFINITIONS Enzymes, food preservation, pasteurization, microorganisms. A-2 QD (1,2,4,5)

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	Spoilage of food Causes of spoilage of food Prevention of spoilage of food Importance of food preservation	explore the causes of food spoilage analyse the need of avoiding the wastage of food. justify the importance of food preservation	ACTIVITY – JAGO GRAHAK JAGO	A-3 QE (1,2,3,5) A-4 Web chart on Methods of Preservation A-5 QABC IN BK A-6 VBQ IN BK
OCTOBER	PROPERTIES OF WATER (SDG 14,15,16)	explore and infer the states of matter and their interconversion. demonstrate the importance of water-cycle in nature. identify soluble & insoluble, floating & sinking materials.	 Demonstration of soluble and insoluble substances through recipe of Nimbu Paani. Floating and sinking using commonly used objects 	AQUA MAGIC Experiments using water

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NOVEMBER	TYPES AND USES OF FUELS FOSSIL FUELS RENEWABLE AND NON RENEWABLE ALTERNATIVES TO FOSSIL FUELS	understand the uses of fuels in living & non-living things. create awareness regarding non-renewable renewable sources of energy. develop the habit of using alternative sources of energy	DEBATE- Electric Vehicles v/s Fuel run vehicles. Solar updraft tower/Air propelled car	A-7 QD (1,3,4,6) A-8 QE (1,5), EQ-Difference between Renewable and Non-Renewable sources of energy. A-9 QABC IN BK A-10 VBQ IN BK
NOVEMBER- DECEMBER	AIR (SDG 13) Composition of air Importance of air Balance in nature	understand the composition of air explore the percentage of various gases present in air explain the purpose of presence of maximum percentage of nitrogen in air analyse the importance of air for animals and plants	Dandiya dancing girl	A-11 QD (2,3,4,6) + QE (2) A-12 QE (3,4,6,7)
		Perform the activities to understand the properties of air	Discussion on SMOG and Pollutants of air	A-13 QABC IN BK

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	Role of nitrogen	Relate how the balance of gases in nature is maintained		A-14 VBQ IN BK
	Air pollution	Examine the factors responsible for depletion of ozone layer in atmosphere		
		Identify the causes of air pollution		
		Explain the effects of air pollution		
		Formulate the steps to reduce air pollution		
DECEMBER	L – OUR SOLAR	comprehend the information	PROJECT –	A-15 DEFINITIONS
	SYSTEM (SDG 13)	about the components of solar system	India in space (ISRO) (RESEARCH EXTENSION)	Solar energy, solar system, satellite, artificial satellite, phases of moon.
	The Sun	relate importance and uses of sun to our day to day life.		A-16 QE (1,2,3)
	Planets Sattelites	identify various planets on the basis of their features.		A-17 QE (4,5) + EQ-Difference between
		differentiate between natural and artificial satellites.		Rotation and Revolution. A-18 QABC IN BK

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		Compare the two movements of Earth ,Rotation & Revolution & its importance.		A-19 VBQ IN BK
JANUARY	L – OBSERVING THE SKY (SDG 13) Day time sky Night time sky Stars Constellations	understand the difference between planets and a star. Locate the pole star in different constellation. enable the child to identify the different types of constellations in the sky.	Night-View Companion – Creating a Constellation Projector-	A-20 QD (1,2,3,4) A-21 QE (1,2,3,4,5) A-22 QABC IN BK A-23 VBQ IN BK