



EMBASSY OF INDIA SCHOOL (KV) MOSCOW

SPLIT-UP SYLLABUS 2024-25

CLASS: VIII - SCIENCE

S.No	Month	No. of working Days	Description (Title of the chapter, Topics /Units)	Suggestive Practical, Project, MDP, Tests & Assignments	Suggested methodology to be used (Like PBL/AIL/CC T/ Experiential learning)
1	APRIL	22	1. Crop Production and Management: Agricultural Practices, Basic Principles of crop production, Preparation of soil, Sowing, Adding Manure and Fertilizers, Irrigation, Protection from weeds, Harvesting, Storage, Food from Animals 2. Microorganisms: Friend and Foe Microorganisms, Where do Microorganisms live, Harmful microorganisms, Food Preservation, Nitrogen Fixation, Nitrogen Cycle	1. Micro green projects 2. Field visit A) Importance of seed selection B) Methods of irrigation c) Weeding 3. Effect of manure and fertilizers on crop plants.	OBSERVATION, PROJECT BASED LEARNING
2	MAY	19	3. Coal and Petroleum: Exhaustible and Inexhaustible Natural Resources, Coal, Petroleum, Natural Gas, Some Natural Resources are Limited 4. Combustion and Flame	Get 5 outline maps of India and mark the places where the following are found; 1. coal 2. petroleum, 3. natural gas 4. petroleum Refineries 5. Thermal Power plants. Survey of different fuels used in 100 houses of your locality. Find out their cost	Video , Experiment.

			What is Combustion, How do we control fire, Types of Combustion, Flame, Structure of a Flame, Fuel Efficiency	per kg and prepare a tabular chart to show the comparison	
3	JUN & JUL	21	5. Conservation of Plants and Animals : Deforestation and its causes, Consequences of Deforestation, Conservation of Forest and Wildlife, Biosphere Reserve, Flora and Fauna, Endemic Species, Wildlife Sanctuary, National Park, Red Data Book, Migration, Recycling of Paper, Reforestation 6.Reproduction in Animals : Modes of Reproduction, Sexual reproduction, Asexual Reproduction	Study of Flora and Fauna . Visit to conservative area like parks, zoo, sanctuary etc . Map work to study location of National parks, sanctuaries Role Play - life stages of silkworm	Video – observation Sharing Travel Experience Role play , Video animation
4	AUGUST	19	7. Reaching the Age of Adolescence: PART I Adolescence and Puberty, Changes at Puberty, Secondary Sexual Characters, Roles of hormones in initiating Reproductive Function, Reproductive phase of life in Humans. Sex determination How is sex of the baby determined, Hormones other than sex hormones, Role of hormone in completing the Life History of Insects and Frogs, Reproductive 8. Force and Pressure: Force a Push or a Pull, Forces are due to an interaction, Exploring forces, A force can change the State of Motion, Force can change shape of an object, Contact forces, Non-contact Forces, Pressure, Pressure exerted by liquid sand gases, Atmospheric Pressure	Preparing a model to show electrostatic force and magnetic force (like magnetic toy) to show attraction and repulsion	Experiment , exhibit , model making
5	SEPTEMBER	21	9.Friction - Force of Friction, Factors affecting Friction, Friction: A necessary Evil, Increasing and reducing Friction, Wheels reduce Friction, Fluid Friction	.To study the increase or decrease in the frictional force a) Between two different surfaces with and without lubricant	Group activities

			10.Sound: Sound is produced by a vibrating body, Sound produced by Humans, Sound needs a medium for propagation, We hear sound through our ears, Amplitude, Time Period and Frequency of Vibrations, Audible and Inaudible Sounds, Noise and Music, Noise Pollution	b).With same surfaces with and without lubricants Static, sliding and rolling friction activities	
6	OCTOBER	19	11.Chemical Effects of Electric Current: Do Liquids Conduct Electricity, Chemical Effects of Electric Current, Electroplating	Electrolysis of water Electroplating using different metals	Experimentation
7	NOVEMBER	21	12.Some Natural Phenomena: Lightning, Charging by Rubbing, Types of Charges and their Interactions, Transfer of charge, The Story of Lightning, Lightning Safety, Earthquake	Collect Information about the earthquakes happened in India,	Group discussion
8	DEC & JAN	21	13. Light : What makes things visible, Laws of Reflection, Regular and Diffused Reflection, Reflected light can be reflected again, Multiple images, Sunlight white or coloured Structure of Human Eye-What is inside our eyes, Care of the eyes, Visually challenged persons can read and write, What is the Braille system	Model of periscope Model of multiple images, parallel mirror forms infinite images	Experimentation Group Activities
9	FEB 2025	20	REVISION		
10	MARCH 2025		SESSION ENDING EXAM		