

**Vidya Pratishthan's
Dr. Cyrus Poonawalla School (CBSE)**

Sub - Science

Annual Planning 2022-23

Std - V

Sr.No	Month	Topic	No. of working days	Period	Learning Objectives	Learning outcomes	Teaching aids	Activity	21 st century skills
1.	April	Bridge course - Food and digestion - Safety and First aid - Solid liquids and gases - How plants make their food - Animals and their young ones - Force work and energy - Air, water and weather	22	12	To enable students to understand <ul style="list-style-type: none"> ● balanced diet ● safety rules ● states of matter ● balance in nature ● animals and their young ones ● types of forces ● pollution and their types ● recycling 	<ul style="list-style-type: none"> ● Describes the balanced diet ● Lists the safety rules ● Describes the states of matter ● Describes how animals reproduce ● Describes the types of forces ● Enlists the different causes of pollution and how to prevent it 	ICR, Videos	Worksheets	Critical Thinking

		- Our green world							
		How Plants Grow		10	<p>To enable students to understand</p> <ul style="list-style-type: none"> Plants grow from seeds Dispersal of seeds Growing plants from roots, stems, and leaves Agriculture 	<ul style="list-style-type: none"> Describes the parts of a seed Realises the importance of seed dispersal and the modes of dispersal Describes the conditions needed for seed germination Appreciates that different plants grow from different parts Realises that different crops grow in different seasons and weather conditions 	ICR, seeds (germination)	To understand the conditions necessary for seed germination	<ul style="list-style-type: none"> Experimentation Critical thinking
2.	June								
		Health and Hygiene	16	12	<p>To enable students to understand</p> <ul style="list-style-type: none"> Components of food Balanced diet Diseases Hygiene Rest, exercise and posture 	<ul style="list-style-type: none"> Identify healthy foods and understand the importance of eating a balanced diet Plans healthy meals for themselves Differentiates between non-communicable and communicable diseases Explains how to prevent and control vitamin and mineral deficiencies Describes the causative agents and mode of transmission of communicable diseases 	ICR, charts , videos	To prepare a menu for four days	<ul style="list-style-type: none"> Experimentation Critical thinking

						<ul style="list-style-type: none"> • Understands the importance of exercising regularly and maintaining a good posture 			
		Safety and First Aid		6	<p>To enable students to understand</p> <ul style="list-style-type: none"> • Road safety • Safety from fire • First aid 	<ul style="list-style-type: none"> • Understands the need to be alert • Understands road signs for warnings • Gives simple first aid to help people in need 	ICR, First aid box	To understand safety signs and symbols	<ul style="list-style-type: none"> • Experimentation • Critical thinking
3.	July								
		Solid, Liquid and Gases	26	8	<p>To enable students to understand</p> <ul style="list-style-type: none"> • States of matter • Change of state • Expansion and contraction in solids 	<ul style="list-style-type: none"> • Describes the properties of solids, liquids, and gases • Describes the three states of matter on the basis of arrangement of particles • Describes how temperature affects state • Describes expansion and contraction in substances 	ICR, video	To understand physical and chemical changes	<ul style="list-style-type: none"> • Experimentation • Critical thinking
4.	August								
		Rocks, Minerals and Soil	22	12	<p>To enable students to understand</p> <ul style="list-style-type: none"> • Different types of rocks • Minerals • Uses of rocks and minerals • Soil 	<ul style="list-style-type: none"> • Classify rocks as igneous, sedimentary, and metamorphic • Describes the uses of rocks and minerals • Understands how soil is formed 	ICR, rocks and soil sample	to observe different types of rock	<ul style="list-style-type: none"> • Experimentation • Critical thinking

						<ul style="list-style-type: none"> • Explains the composition and layers of soil 			
		Animals Around Us		10	<p>To enable students to understand</p> <ul style="list-style-type: none"> • Animals and the places where they live • Body coverings • Feeding habits • Organs for breathing • Movement 	<ul style="list-style-type: none"> • Understands why an animal is found in a certain region • Adaptations that animals have developed to live in their environment • Describes eating habits by looking at mouth parts and vice versa • Describes the behavior of different animals • Describes the specialized organs for breathing according to the place animals live in 	ICR, videos	to identify how legs make us stable	<ul style="list-style-type: none"> • Experimentation • Critical thinking
5.	September								
		Skeletal System and Nervous System	25	12	<p>To enable students to understand</p> <ul style="list-style-type: none"> • Skeletal system • Nervous system 	<ul style="list-style-type: none"> • Identify the major components of the skeleton and describe their role • Describes the functions of the skeletal system • Explains the role of the muscles • Names and describe various kinds of joints • Names and describe the role of the major parts of the nervous system • Describes reflex actions • Identify major parts of the eye and ear 	ICR, models of systems	<ul style="list-style-type: none"> • To understand the movements of joints • To test our reaction time 	<ul style="list-style-type: none"> • Experimentation • Critical thinking

						<ul style="list-style-type: none"> • Describes the role of sense organs 			
6.	October								
		Measurement	17	6	<p>To enable students to understand</p> <ul style="list-style-type: none"> • History of measurement • Measurement of length, mass, capacity, time and temperature 	<ul style="list-style-type: none"> • Describes the need for measurement • Describes the history of measurement • Measures different quantities such as length, capacity, time, and temperature • Describes different units used to measure these quantities and convert one unit to another 	ICR, measuring instruments, tapes, cylinders, clock, and thermometre	<ul style="list-style-type: none"> • Experimentation • critical thinking 	
7.	November								
		Force, Work and Energy	19	10	<p>To enable students to understand</p> <ul style="list-style-type: none"> • Types of force • Work • Simple machines • Energy 	<ul style="list-style-type: none"> • Understands that force is a push or a pull • Differentiates between gravitational force and friction • Understands that machines help us to work faster and make work easier • Knows that levers are simple machines • Differentiates between potential and kinetic energy 	ICR, simple machines	<ul style="list-style-type: none"> • To understand and how a lever works • To understand and an inclined plane 	<ul style="list-style-type: none"> • Experimentation • Critical thinking

						<ul style="list-style-type: none"> • Describes other forms of energy like thermal, chemical, electrical, and sound 			
		Air and Water		10	<p>To enable students to understand</p> <ul style="list-style-type: none"> • Atmosphere • Properties of air • Water • Removing impurities • Removing germs from drinking water 	<ul style="list-style-type: none"> • Understands that air is a mixture of gases • Understands that air occupies space, has mass, exerts pressure, and supports combustion • Conducts simple experiments to support the facts they have learnt about air • Knows about soluble and insoluble impurities • Describes the processes of sedimentation and decantation, or filtration to remove impurities • Knows that water is chlorinated at the waterworks to kill germs 	ICR, charts	To show that air occupies space and has mass, exerts pressure and is essential for burning.	<ul style="list-style-type: none"> • Experimentation • Critical thinking
8.	December								
		Earth, Sun and Moon	21	10	<p>To enable students to understand</p> <ul style="list-style-type: none"> • Solar system • Earth • Sun • Planets • Moon • Eclipses 	<ul style="list-style-type: none"> • Understands that moon is a natural satellite of Earth • Describes interesting facts about moon's surface • Knows that artificial satellites are sent in orbit by man • Describes the uses of artificial satellites 	ICR, model of solar system	To make model of solar system	<ul style="list-style-type: none"> • Creativity • Critical thinking

9.	January								
		Light and Shadow	24	6	To enable students to understand <ul style="list-style-type: none"> • Light • Material transparent, translucent, and opaque • Shadow 	<ul style="list-style-type: none"> • Differentiates between luminous and non-luminous objects • Differentiates between transparent, translucent, and opaque objects • Defines how shadows are formed • Understands the features of a shadow 	ICR, Torch	To show that light travels in straight line	<ul style="list-style-type: none"> • Experimentation • Critical thinking
		Natural Disasters		8	To enable students to understand <ul style="list-style-type: none"> • Floods, earthquake, tsunami, volcano, landslides, cyclones, forest fires 	<ul style="list-style-type: none"> • Describes what a natural disaster is • Describes various natural disasters like flood, earthquake, tsunami, volcano, landslides, cyclones, forest fires • Describes how and why different disasters occur 	ICR, videos	To reuse and recycle the things	Citizenship critical thinking
10.	February								
		Our Environment	23	6	To enable students to understand <ul style="list-style-type: none"> • Air pollution • Water pollution • Land pollution • Noise pollution 	<ul style="list-style-type: none"> • Understands that our environment is precious and we must work together to protect it • Differentiates between various types of pollution • Describes the effects of different pollutions and ways to control them 	ICR, videos	To demonstrate the effect of global warming	Citizenship critical thinking

						<ul style="list-style-type: none">• Spreads awareness about keeping our environment clean.			
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