

SCIENCE DETAILED SYLLABUS
CLASS 5 TERM 1 (2024-25)
MONTH - APRIL-MAY 2024-25

MONTH/ NO. OF TEACHING DAYS/ NO. OF CLASSES	CONTENT	LEARNING OUTCOMES	PEDAGOGY	TECHNOLO GY	INSTRUCTIONAL TOOLS/VIRTUAL TOUR/FLIPPED LEARNING/FIELD TRIPS	PROJECT/ACTIVI TIES/TRANSDISC IPLINARY/ART/I NTEGRATION	ASSIGNMENT	ASSESSMENT
<p>Month- April - May'24-25</p> <p>Teaching Days: 27</p> <p>VALUE/ETHIC-Caring & Sharing</p> <p>THEME: My Planet-My Concern</p> <p>LIFE SKILL: Adopt a tree and</p>	<p>TOPIC: PLANTS-INCREASING THE NUMBERS</p> <p>Subtopics :</p> <p>a)Reproduction, meaning & need for reproduction in plants</p> <p>b)Role of plants in our everyday life-as basis for our existence</p>	<p>Each student will be able to :</p> <ul style="list-style-type: none"> - state the importance of plants for existence of all life on earth - analyze the need for a plant to produce a large number of seeds - observe and list the parts of a seed 	<p>FLIPPED LEARNING Analytical (Pedagogy) Students will analyze their collection of seeds by</p> <p>- Segregating them into seeds having one and two cotyledons.</p>	<p>ONLINE:</p> <ul style="list-style-type: none"> -Kahoot Quiz - Mentimeter -Youtube Links -Podcasts (Diksha Portal) -Virtual Tour to a nursery/kitchen garden/terrace garden 	<p>VIRTUAL TOUR:</p> <p>A virtual garden field trip- https://www.youtube.com/watch?v=NhzNTARK-BA&ab_channel=GrowingGreat</p> <p>OFFLINE:</p> <ul style="list-style-type: none"> - Nature Walk - Flash Cards(stages of germination) 	<p>INTERDISCIPLINARY:</p> <p>TOPIC- ENVIRONMENT</p> <p>-SDG GOAL 13- CLIMATE ACTION</p> <p>ACTIVITY-Make a poster on GLOBAL WARMING and write a slogan</p> <p>COLLAGE MAKING: Collect seeds of various types and make a collage(in the</p>	<p>ANALYSING Q</p> <p>Differentiate between Monocot seeds and Dicot Seeds by giving examples</p> <p>b)Rabi and Kharif Crops by giving examples</p> <p>Q. Sufficient gaps must be kept while planting saplings or sowing a seed. Why?</p>	<p>Objective Assessment will be taken up on the completion of each topic.</p> <p>SUBJECT ENRICHMENT ACTIVITY-</p> <ul style="list-style-type: none"> - Observation - Hand on - Analysis/Conclusion - Data Collection - Maintenance of Lab Manual - Information Involvement - Listening Skills

<p>take care of it.</p> <p>GENDER SENSITIZATION Discussion on can we have lady gardeners? Why? Why not?</p> <p>HEALTH & WELLNESS Find out about any 5 seeds with medicinal properties in your kitchen.</p> <p>GENERAL AWARENESS:- Students will list the plants they have</p>	<p>c) New plants from seeds</p> <p>d) seed germination</p> <p>e) Dispersal of seeds</p> <p>f) New plants from other parts of plants</p> <p>g) Crops and Vegetables</p> <p>Teaching points:</p> <p>-Plants are the most useful gifts of nature for humans and animals.</p> <p>- A plant produces many seeds but only a few are able to</p>	<p>- list the two ways of reproduction in plants with relevant examples.</p> <p>- interpret the need and importance of dispersal of seeds.</p> <p>- list the agents of seed dispersal in nature.</p> <p>- correlate the unique features of seeds with their mode of dispersal</p> <p>- compare a dry bean seed with a soaked seed</p>	<p>-Observe and list its parts</p> <p>- Germination of the seeds</p> <p>-any special feature to help in its dispersal</p> <p>Pair and Share:-</p> <p>Collect some seeds from your kitchen and categorize them as monocots and dicots.</p>	<p>-Talk with a gardener</p> <p>-Live Worksheet</p> <p>DIKSHA PORTAL:- Diksha portal podcast on vegetative propagation-</p> <p>https://diksha.gov.in/play/content/do_31335048477134028811</p>	<p>- Stories of prominent environmental list</p> <p>- News clipping</p> <p>- Crossword puzzles</p> <p>- Class quiz</p> <p>OTHER RESOURCES:</p> <p>- Seed Samples</p> <p>- Specimens of vegetative parts of plants</p> <p>- E- Lesson</p> <p>- Poem- Story of a seed</p> <p>Collection of seeds of different types to study about -</p>	<p>shape of any flower)</p> <p>CULINARY SKILLS:</p> <p>HEALTHY SNACKING- Soak some black gram seeds and make a healthy snack. Give it an interesting name.</p> <p>JOYFUL LEARNING: Grow microgreens in recycled pots and use it to prepare healthy snacks for your family and friends.</p> <p>HANDS-ON ACTIVITY :</p>	<p>Q. A plant produces a large number of seeds at a time. Why?</p> <p>SYNTHESIS Crop should be selected according to the soil type and weather conditions. Justify the statement with relevant examples.</p> <p>EVALUATING Q. One plant is watered regularly and the other one is not for many days . How will these two plants look after a few days? Draw</p>	<p>Presentation Speaking Skills</p> <p>PROJECT-BASED ACTIVITY</p> <p>- Presentation</p> <p>- Information</p> <p>-Involvement</p> <p>-Team Work</p> <p>-Research/Data</p> <p>- Creativity</p> <p>-Viva</p> <p>MULTIPLE ASSESSMENT-(AIL, Notebook Presentation, Class Participation)</p> <p>-Presentation</p> <p>- Handwriting</p> <p>- Regularity</p> <p>- Neatness</p> <p>- Follow up on work</p> <p>-</p> <p>Periodic Test- 10 Marks</p>
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<p>grown in their homes. They will share its common name as well as the botanical nomenclature.</p>	<p>grow into new plants.</p> <ul style="list-style-type: none"> - A seed has a Seed coat ,seed leaves and a baby plant inside it. - Air, water and warmth are necessary for germination of seeds. - The development of seed into a seedling is called Germination - Seeds have to get scattered or dispersed 	<ul style="list-style-type: none"> - observe and identify the different parts in a bean /gram seed - define seed germination and study the various stages of germination. - state the conditions necessary for germination of a seed - explore new plants which may be obtained from vegetative 	<p>Think Pair and square:-</p> <p>Each student will name the plants known to them, classify them on the basis of their mode of reproduction, discuss among themselves on the process of propagation of plants known/heard/seen by them. Students will present their</p>		<ul style="list-style-type: none"> a)Number of cotyledons b) mode of dispersal c) Germination of seeds under different conditions 	<p>Sole Self organized learning Environment</p> <p>The student will dissect “a soaked bean or a gram seed” to study the different parts of a seed and also grow them to observe the different stages of germination.</p>	<p>them.Can you say, why?</p> <p>APPLICATION</p> <p>Q.Grains need to be protected in airtight containers. Why?</p> <p>PROJECT WORK</p> <p>Explore the conditions necessary for germination of seeds with explanations .</p> <p>Grow at least 2 new plants from seeds or from vegetative</p>	<p>Half Yearly- 50 Marks</p>
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	<p>so that they get favorable conditions to grow.</p> <ul style="list-style-type: none"> - Seeds are dispersed by wind, water, animals and by explosion of fruits. - Agriculture-steps in agriculture - Protection and storage of crops 	<p>plant parts with examples for each</p> <ul style="list-style-type: none"> - Differentiate and categorize various crops into Rabi and Kharif crops. - Analyze and list the different conditions for growing crops 	<p>reasons for the same and others will</p> <p>'Thumbs Up or Down' for their reasons.</p> <p>Use of AMP BOX and Wheels of names for class discussion</p> <p>INDEPENDENT LEARNING</p> <p>Observe your surroundings carefully and make a ppt to explain the differences in germination</p>				<p>plant parts and share your experience.</p>	
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			<p>n of monocots and dicots. <u>NIE:-</u> <u>Collect and</u> <u>read articles</u> <u>on how</u> <u>trees were</u> <u>saved/cut</u> <u>down to</u> <u>make way</u> <u>for</u> <u>industrialisa</u> <u>tion/metro</u> <u>services.</u></p>					
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