

# NAVY CHILDREN SCHOOL



## SCIENCE SYLLABUS MONTH WISE SPLIT UP (2024- 25)

### CLASS -VII

MONTH	CHAPTER NO.	CHAPTER NAME	SUGGESTED ACTIVITIES
<b>TERM I</b>			
APRIL - JUNE	1	NUTRITION IN PLANTS	<ul style="list-style-type: none"><li>Plant Nutrition Bingo: Create custom bingo cards with different elements of plant nutrition in the squares. While calling out facts about nutrition, students will cross out the corresponding squares on their Bingo card.</li><li>Water pieces of bread and keep it in warm places for 2 to 3 days and record your observation</li><li>Iodine test to check the presence of starch in leaf.</li></ul>
	2	NUTRITION IN ANIMALS	<ul style="list-style-type: none"><li>Digestion relay race: Organize a relay race where each team represents different stages of digestive process. Students should act out various aspects of digestion as they pass on a ball representing food.</li><li>Make a note on the methods of food intake by different animal around you. OR</li><li>Action of saliva on starch.</li></ul>
	3	HEAT	<ul style="list-style-type: none"><li>Thermometer Pictionary: Students take turns drawing different thermometer readings on the board. Classmates guess the temperatures, building familiarity with reading thermometers and associating different temperatures with daily weather conditions.</li><li>Measure the body temperature of your family members with a clinical thermometer. Record your observations.</li><li>Practical applications of conduction and role of convection current in daily life.</li></ul>
<b>REVISION</b> <b>04 JUL 24 - 12 JUL 24</b> <b>PT- I</b>			

JULY	4	ACIDS, BASES, AND SALTS	<ul style="list-style-type: none"> <li>• Neutralisation ring – Post neutralisation related questions around the classroom. Divide students into groups and ask them to move around to answer each question. Award points based on correct answers and arrange friendly competition among groups.</li> <li>• Collect solutions of common substance like sugar, salt, vinegar, lime juice etc. And observe their acidic and basic nature with turmeric/litmus/China rose.</li> <li>• Showing neutralization reaction.</li> </ul>
	5	PHYSICAL AND CHEMICAL CHANGES	<ul style="list-style-type: none"> <li>• Physical change &amp; Chemical changes – Making shapes of paper, burning of Mg ribbon etc.</li> <li>• Keep iron nails in tap water, salty water and in tap water with oil film on the top separately and observe the different rates of rusting.</li> <li>• Reaction of baking soda and vinegar to form volcano</li> </ul>

AUGUST	6	RESPIRATION IN ORGANISM	<ul style="list-style-type: none"> <li>• Find the breathing rate under different conditions like sleeping, walking, running</li> <li>• Preparation of a model to show the mechanism of breathing by using plastic bottle and balloon</li> <li>• Make a model of stethoscope</li> </ul>
	7	TRANSPORTATION IN ANIMALS AND PLANTS <b>(Assessment to be done in Term-2)</b>	<ul style="list-style-type: none"> <li>• Transportation of water in a stem demonstration.</li> <li>• Circulatory system roleplay</li> </ul>

SEPTEMBER	<b>REVISION FOR HALF YEARLY</b>		
	<b>06 SEP 2024 - 22 SEP 2024</b>		
	<b>HALF YEARLY EXAMINATION</b>		
SEP/OCTOBER	8	REPRODUCTION IN PLANTS	<ul style="list-style-type: none"> <li>• Demonstration vegetative reproduction in potato and bryophyllum leaf.</li> <li>• Collect various types of fruits, split them open and examine the seeds within. Note the characteristics.</li> <li>• Demonstration of sexual parts of the flower by dissecting the hibiscus flower.</li> </ul>

NOVEMBER	9	MOTION AND TIME	<ul style="list-style-type: none"> <li>• Measure the time period of a simple pendulum.</li> <li>• Measurement of speed by walking and running by the students.</li> <li>• Observe the odometer and speedometer in any vehicle in the school campus and record it in the science diary.</li> </ul>
DECEMBER	10	ELECTRIC CURRENT AND ITS EFFECTS	<ul style="list-style-type: none"> <li>• Make four electromagnets with 20, 40 and 60 turns. Connect them one by one with a battery of 2 cells. Compare the strengths of the electromagnets.</li> <li>• Electric circuit using wire cell and bulb</li> </ul>
	<b>REVISION</b>		
<b>11 DEC 2024 TO 20 DEC 2024</b>			
<b>PT II</b>			

DECEMBER/ JANUARY	11	LIGHT	<ul style="list-style-type: none"> <li>• Image formation by spherical mirrors and lenses.</li> <li>• Newton's disc</li> <li>• Activity to show dispersion of sunlight by prism</li> </ul>
	12	FOREST: OUR LIFELINE	<ul style="list-style-type: none"> <li>• Make poster showing negative impacts of deforestation <b>OR</b></li> <li>• Collect clippings from newspapers and magazines on the news items, articles and pictures related to water shortage. Paste them in your scrapbook and share it with your friends.</li> <li>• Collect and paste the pictures of trees having different types of crowns.</li> </ul>
	13	WASTE WATER STORY	<ul style="list-style-type: none"> <li>• Tracing the route of sewage in your building.</li> <li>• Discuss with grandparents and other elderly people in your neighborhood about sewage disposal systems of olden time</li> <li>• Activity to make a simple water filter using sand gravel charcoal etc</li> </ul>
<b>FEBRUARY REVISION</b>			
<b>27 FEB 2025 TO 13 MARCH 2025</b>			
<b>ANNUAL EXAMINATION</b>			

**NAVY EDUCATION SOCIETY**  
**COMMON FINAL EXAMINATION AY 2023-24**  
**CLASS VII**  
**SCIENCE**  
**BLUE PRINT**

**Time: 3 hours**

**Max.Marks:80**

SL.NO	TERM	NAME OF THE CHAPTER	1 MARK OTQ	2 MARKS VSA	3 MARKS SA	5 MARKS LA	4 MARKS CASE STUDY	TOTAL Q(M)
1	TERM-1	Acid, Bases and Salts	3(1)	1(2)	1(3)	----	----	5(8)
2		Physical and Chemical changes	1(1)	----	1(3)	----	1(4)	3(8)
3	TERM-2	Transportation in Plants and Animals	1(1) 1(1)A/R	1(2)	1(3)	1(5)	----	5(12)
4		Reproduction in plants	2(1)	1(2)	1(3)	----	1(4)	5(11)
5		Motion and Time	2(1)	1(2)	1(3)	----	1(4)	5(11)
6		Electric current and its effects	2(1) 1(1)A/R	----	1(3)	1(5)	----	5(11)
7		Light	2(1) 1(1)A/R	1(2)	----	1(5)	----	5(10)
8		Forest: Our lifeline	2(1)	----	1(3)	----	----	3(5)
9		Waste water Story	2(1)	1(2)	----	----	----	3(4)
<b>TOTAL</b>			<b>20(1)</b>	<b>6(2)</b>	<b>7(3)</b>	<b>3(5)</b>	<b>3(4)</b>	<b>39(80)</b>

**Note: Number of questions written outside the bracket and marks written inside the bracket.**

**A/R- Assertion and Reason questions**