

**NAVY EDUCATION SOCIETY ,NAVY CHILDREN SCHOOL**  
**SCIENCE SPLIT UP SYLLABUS FOR ACADEMIC YEAR 2024-2025**

**CLASS IX**

MONTH	CH.NO	CHAPTER	SUGGESTED SUBJECT ENRICHMENT ACTIVITIES
APRIL -MAY- JUNE	1	Matter in our surroundings	<ul style="list-style-type: none"> <li>Determination of melting point of ice and boiling point of water</li> </ul>
	7	Motion	
	5	The fundamental unit of life	<ul style="list-style-type: none"> <li>Temporary mount of onion peel &amp; cheek cell</li> </ul>
JULY  PRE-MID TERM 04 JUL2024-12 JUL 2024	2	Is matter around us pure	<ul style="list-style-type: none"> <li>Separation of a mixture of ammonium chloride, sand and salt</li> </ul>
	8	Force and Laws of motion	
	6	Tissues	<ul style="list-style-type: none"> <li>Observation of meristematic tissue in onion bulbs (Activity 6.1)</li> </ul>
AUGUST	2	Is matter around us pure (Contd.)	<ul style="list-style-type: none"> <li>Preparation of:               <ol style="list-style-type: none"> <li>A true solution of common salt, sugar and alum</li> <li>A suspension of soil, chalk powder and fine sand in water</li> <li>A colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of transparency filtration criterion stability</li> </ol> </li> </ul>
	8	Force and Laws of motion (Contd.)	
	6	Tissues (Plant tissues)	<ul style="list-style-type: none"> <li>T.S. of dicot stem (Activity 6.2)</li> </ul>

<b>MID TERM</b> <b>06 SEP 2024 to</b> <b>22 SEP 2024</b> <b>HY Syllabus, -Physics-</b> <b>Motion, Force and</b> <b>laws of motion</b> <b>Chemistry -Matter in</b> <b>our surroundings,</b> <b>Is matter around us</b> <b>pure</b> <b>Biology –</b> <b>Fundamental unit of</b> <b>life, Tissues (Plant</b> <b>tissues only)</b>  SEPTEMBER	2	Is matter around us pure (Contd.)	<ul style="list-style-type: none"> <li>Preparation of:               <ol style="list-style-type: none"> <li>A mixture</li> <li>A compound using iron filings and Sulphur powder and distinguishing between these on the basis of:                   <ul style="list-style-type: none"> <li>Appearance, i.e., homogeneity and heterogeneity</li> <li>Behavior towards a magnet</li> <li>Behavior towards carbon di-sulphide as a solvent</li> <li>Effect of heat</li> </ul> </li> </ol> </li> </ul>
	8	Force and Laws of motion (Contd.)	<ul style="list-style-type: none"> <li>Perform the following reactions and classify them as physical or chemical changes:               <ol style="list-style-type: none"> <li>Iron with copper sulphate solution in water</li> <li>Zinc with dilute sulphuric acid</li> <li>Heating of copper sulphate crystals</li> <li>Sodium sulphate with barium chloride in the form of their solutions in water</li> </ol> </li> </ul>
	9	Gravitation	<ul style="list-style-type: none"> <li>Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder</li> </ul>
	6	Tissues (plant tissues contd.)	<ul style="list-style-type: none"> <li>Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants.</li> </ul>
OCTOBER	3	Atoms & molecules	<ul style="list-style-type: none"> <li>To verify Law of conservation of mass.</li> </ul>
	9	Gravitation (Contd.)	<ul style="list-style-type: none"> <li>Establishing the relation between the loss in weight of a solid when-               <ol style="list-style-type: none"> <li>fully immersed in Tap water</li> <li>Strongly salty water with the weight of water displaced by it by taking at least two different solids</li> </ol> </li> </ul>
	6	Animal tissues	<ul style="list-style-type: none"> <li>Striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams</li> </ul>
NOVEMBER			

	10	Work and Energy	
	12	Improvement In Food Resources	
DECEMBER	4	Structure of Atom	
<b>POST MID TERM 11 DEC 2024 – 20 DEC 2024</b>	11	Sound	<ul style="list-style-type: none"> <li>• Velocity of a pulse</li> </ul>
	12	Improvement In Food Resources (Contd.)	<ul style="list-style-type: none"> <li>• Collect pictures and information on Indigenous and Exotic breed of cow used in dairy/ cattle farming</li> </ul>
JANUARY	1 1	Sound (Contd.)	<ul style="list-style-type: none"> <li>• Reflection of sound</li> </ul>
	3	Atoms and Molecules (Contd.)	<ul style="list-style-type: none"> <li>• To verify Law of conservation of mass.</li> </ul>
	1 2	Improvement in food Resources (Contd.)	<ul style="list-style-type: none"> <li>• Making herbarium of plants</li> </ul>
FEBRUARY		Revision	
<b>ANNUAL EXAM 27 FEB 24-15 MARCH 24</b>		Final assessment	
<b>Annual Exam syllabus – Full syllabus</b>			

**PT1 BLUE PRINT**

	<b>Name of chapter</b>	<b>1 mark</b>	<b>2 Mark</b>	<b>3 Mark</b>	<b>4 Mark</b>	<b>4 Mark Case study</b>	<b>Total</b>
<b>Chemistry</b>	<b>Matter in our surroundings 13 M</b>	<b>1(4) 1(1)</b>	<b>2(2)</b>			<b>4(1)</b>	<b>13(8)</b>
<b>Physics</b>	<b>Motion 13 M</b>	<b>1(3)</b>	<b>2(2)</b>	<b>3(2)</b>			<b>13(7)</b>
<b>Biology</b>	<b>The Cell 14 M</b>	<b>1(1) 1(1)</b>	<b>2(1)</b>	<b>3(2)</b>	<b>4(1)</b>		<b>14(6)</b>
		<b>10(10)</b>	<b>10(5)</b>	<b>12(4)</b>	<b>4(1)</b>	<b>4(1)</b>	<b>40(21)</b>

**HALF YEARLY EXAMINATION 2024-25**  
**CLASS- IX, SCIENCE**

**BLUE PRINT**

<b>NAME OF THE CHAPTER</b>	<b>1-MARK</b>	<b>2-MARKS</b>	<b>3-MARKS</b>	<b>5-MARKS</b>	<b>CASE STUDY (4MARKS)</b>	<b>TOTAL</b>
<b>MATTER IN OUR SURROUNDINGS</b>	1(4)	2(1)	-	-	4(1)	<b>10(6)</b>
<b>IS MATTER ARROUND US PURE</b>	1(4)	-	3(2)	5(1)	-	<b>15(7)</b>
<b>FUNDAMENTAL UNIT OF LIFE</b>	1(4)	2(2)	3(1)	5(1)	-	<b>16(8)</b>
<b>PLANT TISSUES</b>	1(5)	2(1)	3(1)	-	4(1)	<b>14(8)</b>
<b>MOTION</b>	1(2)	2(2)	3(1)	-	4(1)	<b>13(6)</b>
<b>FORCE AND LAWS OF MOTION</b>	1(1)	-	3(2)	5(1)	-	<b>12(4)</b>
<b>TOTAL</b>	<b>20(20)</b>	<b>12(6)</b>	<b>21(7)</b>	<b>15(3)</b>	<b>12(3)</b>	<b>80(39)</b>

PT II BLUE PRINT - Class IX SCIENCE

Subject	Chapter Name	1 mark	2 Marks	3 Marks	4 Marks	4 Marks Case study	Total
Biology 14 M	Tissues	1(1) 1(1)	2(1)	3(2)		4(1)	14(6)
Chemistry 13 M	Atoms & Molecules	1(4) 1(1)	2(2)		4(1)		13(8)
Physics 13 M	Gravitation	1(2) 1 (1)	2(2)	3(2)	-		13(7)
<b>Total</b>		10(10)	10(5)	12(4)	4(1)	4(1)	40(21)

**ANNUAL EXAM BLUE PRINT CLASS -IX, SCIENCE**

CHAPTERNO	CHAPTER	1M	2M	3M	5M	CASE-BASED (4M)	TOTAL MARKS
1	Matter in our surroundings	1				1	5
2	Is matter around us pure?	2		1			5
3	Atoms and molecules	2	1	1			7
4	Structure of atoms	3			1		8
5	Cell-the fundamental unit of life	3	1	2			11
6	Tissues	3	2			1	11
15	Improvement in food resources	1			1		6
8	Motion		1	1			5
9	Force and Laws of motion	2		1			5
10	Gravitation	1			1		6
11	Work and Energy	2		1			5
12	Sound		1			1	6
Total questions		20	6	7	3	3	39Q
Total marks		20	12	21	15	12	80Marks

**Note:** Section A comprises 16 MCQs and 4 Assertion-Reason questions

Rest of the question paper will have the same format as Class X Sample Question paper 24-25