

**O.P.JINDAL SCHOOL,SAVITRI NAGAR**  
**ANNUAL SYLLABUS (2023-24)**

**CLASS-IX**

**SUBJECT-SCIENCE**

<b>Month</b>	<b>I.D.</b>	<b>NO. OF PERIODS</b>	<b>CHAPTER</b>	<b>ENRICHMENT ACTIVITY</b>	<b>VALUES IMPARTED</b>	<b>EXTRA CONTENT</b>
<b>APRIL</b>	<b>21</b>		1. Matter in our surroundings(cont.)  5.FundamentalunitofLife (cont.)  7.Motion(cont.)	1. Demonstration and discussion of properties of matter.  5-Cell city project  7. To solve Numerical -based on distance and displacement	1. understand the physical and chemical properties of matter  5-able to describe the cell theory, prokaryotic and eukaryotic cells,  7.solve logical problems based on graphs	1.Worksheets , 10 MCQ based on NTSE/OLYMPIADS  5.Genetics, DNA finger printing  7.Worksheets, 10 MCQ based on NTSE/OLYMPIADS.
<b>JUNE</b>	<b>11</b>		1.Matter in our surrounding  5.Fundamental unit of Life  7.Motion	1. Demonstration and discussion of physical states and inter conversion of states of matter  5.Poster of cell organelles  7.To solve numerical based on distance, displacement, speed and velocity	1.To understand the basic quantities and inter conversion of states of matter  5.understanding of chromosomes, DNA and types of cell division  7. understand the change in velocity	1.Worksheets , 10 MCQ based on NTSE/OLYMPIADS  5.Importance of cell biology  7.10 MCQ based on NTSE/OLYMPIADS

<b>JULY</b>	24		<p>2.Is matter around us pure</p> <p>6.Tissues (cont.)</p> <p>8.Force and Laws of Motion (CONTI.)</p>	<p>2.Demonstration and discussion of types of solutions</p> <p>6.Importance of cell biology</p> <p>8-To find the velocity using s-t graph. and to find the displacement and acceleration using v-t graph</p>	<p>2.To understand nature of matter, types of solutions, concentration terms</p> <p>6.Learn different types of epithelial tissues, their location and function.</p> <p>8.understand the solve logical problems based on graphs</p>	<p>2.Numerical based on concentration , 10 MCQ based on NTSE/OLYMPIADS</p> <p>6.Human genome project</p> <p>8.Worksheet,10 MCQ based on NTSE/OLYMPIAD</p>
<b>AUGUST</b>	25		<p>2.Is matter around us pure</p> <p>8.Force and Laws of Motion</p> <p>9. Gravitation (CONTI.)</p> <p>6.Tissues</p>	<p>2.Demonstration and discussion of types of matter</p> <p>8. To compare the inertia of different masses.</p> <p>9.To calculate apparent weight</p> <p>6.To demonstrate that growth of plants occur in certain regions only.</p>	<p>2.To understand the properties of Metals, on metals, metalloids mixtures and compounds</p> <p>8-undestand the concept and impacts of force</p> <p>9-understandmany daily life situations explained using apparent weight.</p> <p>6-Able to classify and Describe different types of connective tissue.</p>	<p>2.Worksheets , 10 MCQ based on NTSE/OLYMPIADS</p> <p>8.Worksheets ,10 MCQ based on NTSE/OLYMPIADS</p> <p>9.Worksheets ,10 MCQ based on NTSE/OLYMPIADS</p> <p>6.Recombinant DNA Technology</p>
<b>SEPTEMBER</b>	25		<b>REVISION AND MID TERM EXAM</b>			

<b>OCTO BER</b>	<b>20</b>		<p>3.Atoms and molecules</p> <p>15. Improvement in food resources(cont.)</p> <p>10.Gravitation</p>	<p>3. Experiments based on separation of mixtures.</p> <p>15. Make a herbarium of cereals, pulses and oil seeds and identify the seasons of their sowing and harvesting.</p> <p>10. To calculate the weights of objects of different shapes and sizes.</p>	<p>3.To understand particle nature of atoms and molecules ,basic units</p> <p>15.Promote conservation of environment, such as organic farming, waste management etc</p> <p>10.Understand the effect of mass and Newton’s law of gravitation.</p>	<p>3.Worksheets for formula writing,valencies of elements 15.photoperiodism,plant hormones</p> <p>15.10 MCQ based on NTSE/OLYMPIADS</p> <p>Worksheet,10 MCQ based on NTSE/OLYMPIADS</p>
<b>NOVE MBER</b>	<b>16</b>		<p>3. Atoms and molecules</p> <p>11. Work and Energy (cont.)</p> <p>15.Improvement in food resources(Cont.)</p>	<p>3.Chart preparation to understand structure of atom Numerical based on atomic mass ,mole concept</p> <p>11.Activity on positive and negative work done.</p> <p>15.Activity on photoperiod</p>	<p>3.To understand sub atomic particles, structure of atom..</p> <p>11.Understand the relation between weight and gravity</p> <p>15.Analyses and Graphs / figures such as crop yield after application of fertilizers etc.</p>	<p>10 MCQ based on NTSE/OLYMPIADS</p> <p>10 MCQ based on NTSE/OLYMPIADS</p> <p>15 .Vernalisation</p>
<b>DECE MBER</b>	<b>22</b>		<p>4.Structure of atom(cont.)</p> <p>11.WorkandEnergy</p>	<p>4.Numericals to find % compositions of isotopes</p> <p>11.Understand concept of work scientifically and difference between daily life works</p>	<p>4.To understand the calculations of no. of subatomic particles in an atom, isobars isotopes</p> <p>11.Understand concept of work and difference between daily life works</p>	<p>Worksheets , 10 MCQ based on NTSE/OLYMPIADS</p> <p>11.Worksheets ,10 MCQ based on NTSE/OLYMPIADS</p>

			12. Sound (CONTI.)  15.Improvement in food resources	12. Activity of reflection of sound.  15.Activity on different cropping	12. Activity based on sonar  15. Applies scientific concepts in daily life and solving problems.	12.Worksheets ,10 MCQ based on NTSE/OLYMPIADS  15.Parthenocarpypolyembryony, apomixes
<b>JANUARY</b>	<b>23</b>		4.Structure of atom  12.Sound	4.Subject enrichment activity  12. Activity based on conversion of energy.	4.To understand the properties isobars isotopes  12.Know the different characteristics of sound.	4.Worksheets , 10 MCQ based on NTSE/OLYMPIADS  10 MCQ based on NTSE/OLYMPIADS
<b>FEBRUARY</b>	<b>24</b>		<b>REVISION. Final EXAM</b>			

### **SYLLABUS FOR EXAMINATION**

<b>SN</b>	<b>EXAMINATION</b>	<b>MONTH</b>	<b>MAX.MARKS</b>	<b>MAX.TIME</b>	<b>SYLLABUS FOR EXAMINATION</b>
<b>1</b>	<b>TEST-1</b>	<b>JULY</b>	20	1 Hr	1,5,8
<b>2</b>	<b>HALF YEARLY</b>	<b>September</b>	80	3Hrs	1,2,5,6,14,8,9,10
<b>3</b>	<b>TEST-2</b>	<b>November</b>	20	1Hrs	3,7,10
<b>4</b>	<b>ANNUAL EXAM</b>	<b>February</b>	80	3Hrs	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15