

# Montfort School

Ashok Vihar, Delhi -110052



Syllabus 2023-24

Class - IX

<u>Time Duration</u>	<u>Name of the Chapter</u>	<u>No. of Teaching Periods</u>	<u>Pedagogy</u>	<u>Art Integrated Activities</u>
April 1-30	1) The Fun They had	3	Introduction: Online Teaching Vs Offline Teaching Experiential learning	Express your opinion about the pros and cons of Online teaching and proper school teaching in the form of a G.O
	2) The Road Not Taken	3	(during Pandemic) Brainstorming about choices in life	Some such like Personalities who made remarkable progress despite their handicap/ Legendary Indian Classical Musicians. Interview with these personalities will be conducted in Pairs
	3) The Sound of Music	4+3		
April	1) The Lost Child	4	Use of real life examples Class- discussion	Suggest an alternative ending of this story
	2) Editing	3	Grammar practice will be given Flip classroom - Humour in the story and Toto's adventures	
May 1-27	1) The Little Girl	4	Active learning Reading, Class discussion	Narrate an incident when you made a gift for your parents or gave them a pleasant surprise A few groups will enact the play
	2) Wind	2	Explanation of poem	
	3)The Adventures of Toto	3	Omission passage will be given	
	4) Omission, Gap-filling	5 =22		
July 1-31	1) Rain on the Roof	3	Brainstorming Reading, paraphrase of poem	Write a short poem on rain/ wind or any other element of nature  To learn and appreciate the art of story telling  Anne Frank's Diary
	2)Iswaran The Storyteller	3	R.K.Laxman ,the famous author- Narrative style	
	3) Diary Entry	2	Collaborative Learning Basic guidelines on how to write a diary entry	
July	1) Story- Writing	3	Through multimedia Video on Einstein Brainstorming: Einstein's personality	Group-discussion
	2) A Truly beautiful Mind	4	Newspaper, magazine articles	
	3) Descriptive Paragraph (person, place, event)	4		
	4) Grammar: Reordering, Cloze-filling	2 =21	Communicative approach	

August 1-31	1) The Legend of Northland  2) The Snake and the Mirror	3  5	Collaborative Learning Reading, explanation by students  Enjoy reading the story	Role-Play- Poem Enactment  Write a humorous account of any incident (real/imaginary)
August	1)Integrated Grammar Practice: Editing, Omission, Reported Speech 2) The Kingdom of fools  3) ASL 4) Story writing	6  3  4 3  =24	Recapitulating previous knowledge of Reported Speech Integrative grammar Practice Active learning- Picture Study  Developing Communication Skills	Conduct an interview in class Reported Speech Activity
Sept 1-30	1) The Happy Prince 2) Revision	3  3	Stimulating critical thinking  Writing Guidelines on writing a story	ASL will be  Conducted

**TERM 2**

<u>Time Duration</u>	<u>Name of the Chapter</u>	<u>No. of Teaching Periods</u>	<u>Pedagogy</u>	<u>Art Integrated Activities</u>
Sept	1) No Men are Foreign 2) Integrated Grammar	3 3 = 12	Interpreting illustrations Stimulating Critical thinking Title justification: removing barriers	Poem recitation Explanatory video
Oct. 1-30	1) My Childhood 2) On Killing a Tree 3) Re-ordering	5 2 2	Brainstorming Autobiographical Account  Examples from real life situations  Significance of title Participatory learning	Debate  Reconstruct a dialogue between a child and speaking tree
	1) Reach for the Top 2) Integrated grammar 3) Descriptive Paragraph	5 3 2 = 23	Inspiring stories- values to be learnt Digital Mode: PPT on Santosh Yadav & Maria	Biographies of great personalities
Nov. 1-30	1) ASL 2) A Slumber Did My Spirit Seal	3 2	Participatory learning Communication Skills	Honing the speaking and listening skills and building their confidence in using the language
Nov.	1) The Last Leaf 2) Reported Speech 3) If I were You	3 4 6 =21	Interactive learning Class- discussion  Cooperative learning Active and dramatic approach. Role play, setting and other elements of play will be explained	Quiz on these lessons & grammar
Dec. 1-31	1) The Lake Isle of Innisfree 2) Reading Comprehension	4 2	Interactive learning Nature walk, Its healing touch Active learning	ASL will be conducted Topic Presentation & Problem solving PPT, story-telling, speech will be conducted
Dec.	1) A House is not a Home 2) Kathmandu 2) Grammar 3) Activity	4 4 2 = 16	House vs Home- student's interpretation Participatory learning Practice will be given	Collect diary entries, letters of famous personalities Tourist Brochure: Art Integrated project
Jan 1- 31	1) The Beggar	5	Interactive learning Values imbibed from the story	Extempore
Jan	1) Revision 2) Internal Assessment	8 5 = 18	Interactive learning Class	
Feb 1-15	1) Revision Internal Assessment continued	11		

**Unit Test 1:**

The Fun They had  
The Road Not Taken  
The Sound of Music  
Wind  
Diary Entry  
Reading  
Comprehension  
Grammar: Editing, Gap-Filling

**Half Yearly**

Syllabus completed till the first week of September

**Annual Exam**

Complete Syllabus

**Subject Enrichment Activity**

➤ Art Integrated Project will be given

**Portfolio**

Assessment of notebooks on the basis of regularity, completion of work, neatness & overall participation of the student in the class.

**पाठ्यक्रम - हिंदी**  
**(2023-24)**  
**कक्षा - नवीं (IX)**

**प्रथम सत्र**

क्रम संख्या	अवधि	अध्यापन कालांश	पाठ/ कवर किया पाठ्यक्रम	शिक्षण पद्धति	पाठ्यदिगम आधारित/ कला समेकित गतिविधि
1	अप्रैल 1-30	18-20	*दुख का अधिकार *रैदास के पद *अनुच्छेद लेखन	*पाठन/वाचन, *व्याख्या,अर्थबोध, *दृश्य श्रव्य सामग्री *समूह चर्चा *कक्षा गतिविधि *सहभागिता से प्रश्नोत्तर विचार * कवि परिचय और संदर्भ *पाठन/वाचन, *व्याख्या,अर्थ और भावबोध, *समूह चर्चा /कक्षा गतिविधि *सहभागिता से प्रश्नोत्तर विचार	परिचर्चा - "व्यक्ति की पहचान उसकी पोशाक से होती है।" * सिक्किम के कवियों का परिचय प्राप्त कीजिए और चित्र सहित प्रस्तुत कीजिए। * दूसरे पद में आए कवियों का परिचय प्राप्त कीजिए और कक्षा में प्रस्तुत कीजिए। * अनुच्छेद लेखन- सामाजिक विषमता / गरीबी * प्रश्न निर्माण
2	मई 1-27	20-22	*शब्द और पद *अनुस्वार और अनुनासिक *उपसर्ग प्रत्यय *गिल्लू *अग्निपथ *अपठित गद्यांश *पत्र लेखन (अनौपचारिक)	**संदर्भ, प्रस्तावना *व्याख्या विधि *आगमन विधि *अभ्यास विधि	* अंडमान और निकोबार द्वीप समूह और लक्षद्वीप के वन्य जीवन का परिचय प्राप्त कीजिए और चित्र सहित प्रस्तुत कीजिए। * दूसरे पद में आए कवियों का परिचय प्राप्त कीजिए और कक्षा में प्रस्तुत कीजिए। * पत्र लेखन गतिविधि * समाज में गरीबों की दयनीय स्थिति पर चिंता व्यक्त करते हुए अपने मित्र को पत्र लिखें। / <b>*कविता एलबम-</b> " जीवन संघर्षमय है इससे घबराकर रुकना नहीं चाहिए" इस विषय से संबंधित अन्य कविताओं की कविताओं को एकत्रित कर एलबम निर्माण।
3	जुलाई 1-31	16-18	* एवरेस्ट : मेरी शिखर यात्रा * रहीम के दोहे	*स्पष्टीकरण * व्याख्या विधि *विश्लेषण विधि	* नैतिक मूल्यों या सामाजिक विसंगति जैसे विषय पर दोहा रचना

			<ul style="list-style-type: none"> <li>* संवाद लेखन</li> </ul>	<ul style="list-style-type: none"> <li>*सहयोगात्मक विधि</li> <li>*अधिष्ठापन</li> <li>*आगमन विधि</li> <li>*उद्बोधन और उदाहरण शैली</li> </ul>	<ul style="list-style-type: none"> <li>* अंडमान और निकोबार दीप समूह तथा लक्षदीप के पर्यटक स्थलों के विषय में सचित्र जानकारी एकत्र कीजिए और उसे प्रस्तुत कीजिए।</li> <li>* अपनी किसी पहाड़ी स्थल की यात्रा के विषय में बताते हुए दो मित्रों के बीच संवाद लिखिए</li> <li>* प्रश्न निर्माण</li> </ul>
4	अगस्त 1-31	22-24	<ul style="list-style-type: none"> <li>*स्मृति (संचयन)</li> <li>*अर्थ के आधार पर वाक्य</li> <li>*स्वर संधि</li> <li>*विराम चिह्न</li> <li>* श्रवण और वाचन कौशल (ASL)</li> <li>*चित्र वर्णन</li> <li>* अपठित गद्यांश</li> </ul>	<ul style="list-style-type: none"> <li>*संदर्भ, प्रस्तावना</li> <li>*व्याख्या विधि</li> <li>*आगमन विधि</li> <li>*अभ्यास विधि</li> </ul>	<ul style="list-style-type: none"> <li>* अपने जीवन की किसी अविस्मरणीय है घटना का वर्णन अपने शब्दों में कक्षा में कीजिए।</li> <li>*प्रश्न निर्माण</li> </ul>
5	सितंबर 1-30	10-12	<ul style="list-style-type: none"> <li>*पुनरावृत्ति अभ्यास</li> <li>*वाचन एवं श्रवण कौशल मूल्यांकन</li> <li>*प्रथम सत्रीय परीक्षा</li> <li>*प्रश्न पत्र चर्चा</li> </ul>		

यूनिट परीक्षा - 1	50 अंक	<ul style="list-style-type: none"> <li>*दुख का अधिकार</li> <li>*रैदास के पद</li> <li>*गिल्लू</li> <li>*शब्द और पद</li> <li>*अनुस्वार और अनुनासिक</li> <li>*उपसर्ग-प्रत्यय</li> <li>*अपठित गद्यांश</li> </ul>
प्रथम सत्रीय परीक्षा	80 अंक	अप्रैल से अगस्त तक पढ़ा गया संपूर्ण पाठ्यक्रम प्रथम सत्रीय परीक्षा में पूछा जाएगा।

क्रम संख्या	अवधि	अध्यापन कालांश	पाठ/ कवर किया पाठ्यक्रम	शिक्षण पद्धति	गतिविधि / कला समेकित गतिविधि
6	अक्टूबर 1-31	22-23	*तुम कब जाओगे अतिथि *कल्लू कुम्हार की उनाकोटि *वाचन एवं श्रवण कौशल मूल्यांकन (ASL)	**पाठन/वाचन, *व्याख्या,अर्थबोध, *दृश्य श्रव्य सामग्री *समूह चर्चा *कक्षा गतिविधि *सहभागिता से प्रश्नोत्तर विचार *श्रवण और वाचन कौशल	*अंडमान और निकोबार द्वीप समूह के सेल्यूलर जेल के इतिहास आदि के विषय में सचित्र जानकारी एकत्र कर प्रस्तुत कीजिए। * तुम कब जाओगे अतिथि पाठ के आधार पर एक रोल प्ले
7	नवंबर 1-30	19-21	*वैज्ञानिक चेतना के वाहक..... *संवाद लेखन / अपठित बोध	*पाठन/वाचन, *व्याख्या,अर्थबोध,भावबोध *दृश्य श्रव्य सामग्री *समूह चर्चा *कक्षा गतिविधि *सहभागिता से प्रश्नोत्तर विचार *आगमन विधि *अभ्यास विधि	*नोबेल पुरस्कार प्राप्त भारतीय वैज्ञानिकों का सचित्र परिचय। *विचाराभिव्यक्ति- आधुनिक विज्ञान ने किस प्रकार मानव जीवन को और सरल बना दिया है।
8	नवंबर 1-30	7-8	*तुम कब जाओगे अतिथि *अनुच्छेद लेखन *पत्र लेखन *गीत- अगीत *व्याकरण पुनरभ्यास (अर्थ के आधार पर वाक्य,संधि) *अपठित गद्यांश	* पाठन/वाचन, *व्याख्या,अर्थबोध,भावबोध *दृश्य श्रव्य सामग्री *समूह चर्चा *कक्षा गतिविधि *सहभागिता से प्रश्नोत्तर विचार *अभ्यास विधि	*लेखन अभ्यास *प्रश्न निर्माण * तुम कब जाओगे अतिथि पाठ के आधार पर एक रोल प्ले
9	दिसंबर 1-31	14-16	*नए इलाके में *खुशबू रचते हैं हाथ *शब्द निर्माण- उपसर्ग, प्रत्यय *मेरा छोटा सा निजी पुस्तकालय	*पाठन/वाचन, *व्याख्या,अर्थबोध,भावबोध *समूह चर्चा *कक्षा गतिविधि *सहभागिता से प्रश्नोत्तर विचार *आगमन विधि *अभ्यास विधि	* माचिस निर्माण, मोमबती निर्माण, लिफाफा निर्माण, पापड़ निर्माण आदि लघु उद्योगों के विषय में जानकारी एकत्र करना और कक्षा में सचित्र प्रस्तुति *पॉडकास्ट- आधुनिक जीवन शैली के हानि और लाभ



14	जनवरी 1-31	16-18	*शुक्रतारे के समान *संवाद लेखन, *वाचन और श्रवण कौशल मूल्यांकन	*पाठन/वाचन, *व्याख्या,अर्थबोध,भावबोध *दृश्य श्रव्य सामग्री *समूह चर्चा *कक्षा गतिविधि *सहभागिता से प्रश्नोत्तर विचार *आगमन विधि *अभ्यास विधि	*स्वानुभूति" (कक्षा गतिविधि) --गांधीजी की आत्मकथा पढ़िए और उससे होने वाली अनुभूति को कक्षा में निष्कर्ष के रूप में साझा कीजिए। *लेखन अभ्यास
19	फरवरी	10-11	*पुनरावृत्ति और प्रतिदर्श प्रश्न पत्र *वार्षिक परीक्षा	*पुनरावृत्ति अभ्यास	*अभ्यास

### यूनिट परीक्षा 2

(50 अंक)

- \*वैज्ञानिक चेतना के वाहक....
- \*नए इलाके में
- \*खुशबू रचते हैं हाथ
- \*कल्लू कुम्हार की उनाकोटि
- \*अर्थ के आधार पर वाक्य भेद
- \*उपसर्ग-प्रत्यय
- \*संधि
- \*संवाद लेखन
- \*चित्र वर्णन

वार्षिक परीक्षा (80अंक)

प्रथम और द्वितीय सत्र का पूर्ण पाठ्यक्रम

**SOCIAL SCIENCE MONTH WISE BREAK UP OF SYLLABUS (2023-24)**  
**CLASS IX**

<b>S.NO</b>	<b>DURATION</b>	<b>NO. OF TEACHING DAYS</b>	<b>TOPICS / SYLLABUS TO BE COVERED</b>	<b>PEDAGOGY</b>	<b>ART INTEGRATED ACTIVITIES</b>	<b>OTHER ACTIVITIES</b>
1.	1.4.23-30.4.23	20	1.India Size and Location  2. The French Revolution	Demonstration, audio visuals, Critical thinking, Globe reading, Map skills  Explanation , Discussion, story telling, Videos, Model charts, Timelines, Activity based learning	Map work- location and labelling  Drawing and Interpretation of Political Symbols during eighteenth century France	Group activity/Role play highlighting the personalities of Louis XVI, Napoleon, Maximillian Robespierre
2.	1.5.23-27.5.23	22	3. The story of village Palampur  4.What is Democracy? Why Democracy?  5.Physical Features Of India	Discussion, Narration, Storytelling, PPT, Critical thinking and analysis of data, Case studies  Explanation, Interaction, Pictorial analysis, Stories on democracy and dictatorships, Brainstorming  Description, Analysis and Synthesis, importance of different physical features of India.	Map activity	Poster Making on World Labour Day  Debate/ Group discussion on different forms of government  Students (in Groups) to prepare a presentation on the different physiographic divisions of India with their strategic importance
3.	1.7.23-31.7.23	18	6.Constitutional Design	Collaborative learning, Analysing the role of the Constituent	Students to write the Preamble of	Role play (Dr. B.R.Ambedkar , Mahatma Gandhi,

				<p>Assembly, Discussion on the contributions of Nelson Mandela and Mahatma Gandhi in the making of the Constitution of their respective countries</p> <p>Critical and creative thinking</p>	the Constitution	Nelson Mandela)
			7. People As Resource	<p>Interactive and collaborative learning, explanation, Classification of economic activities</p> <p>Brainstorming</p>		Activity on International Youth Day
4.	1. 8. 23-31.8.23	24	<p>8. Socialism and the Russian Revolution</p> <p>9. Pastoralists in the modern world</p> <p>10. Forest Society and Colonialism</p>	<p>Interaction, Explanation, Storytelling, Peer group Discussion, Audio-visuals, Timelines</p> <p>Interactive and collaborative learning,</p> <p>Collaborative learning; compare and contrast the lives of Indian pastoral tribes with that of Africa</p>	Map Skills- Location and labelling of the Allied Powers and Axis Powers on the World Map	<p>Group discussions /presentations on various aspects related to the chapter</p> <p>Inter disciplinary project</p>
5.	1. 9.23-23.9.23.	12	Revision for first terms			
6.	1.10.23-31.10.23	23	11. Poverty As a Challenge	Context based learning, discussion, analysis		Activity on International Poverty

			12. Electoral Politics	of data, Critical evaluation of the anti poverty schemes , activity based learning  Explanation , Discussion on stages of elections, Critical thinking, audio visuals , Case studies, examples, activity based learning		Eradication Day  Role play (different stages of elections)
			13. Drainage	Discussion, presentation on the role of rivers and lakes to our economy	Map activity	
7.	1.11.23-30.11.23	21	14. Nazism and the rise of Hitler	Direct teaching, Brain Storming, discussion, Videos /movies related to Hitler, Bio Sketch	Map activity (axis and allied powers of world war 2)	Students in group to give a presentation on different aspects of Hitler's life
			15. Working of Institutions	Explanation, Peer group discussion, , Analysis, Comprehension Brainstorming Direct teaching	Poster Designing on the three Institutions of India(Any one to be taken up by the students)	Youth Parliament/ Peer group activity on the role of the Parliament, Executive and Judiciary of our country
8.	1.12.23-31.12.23	16	16. Natural Vegetation and Wildlife	Discussion, classification of forests, description of flora and fauna of India, group activity, Collaborative learning, Brainstorming	Map Skills/ Brochure on climate /physiographic division of any one state of India(paired state with Delhi)	Youth Parliament/D ebate on the role of the Parliament, Executive and Judiciary of our country.
			17. Population	Analyse the reasons behind the	Map work	

			18. Food Security in India	<p>uneven distribution of population Factors affecting the population density of a place</p> <p>Case study and group discussion to substantiate the link between a well-structured food security system and continuity of supply to masses.</p>		
.	1.1.24-31.1.24	18	19. Climate  20. Democratic Rights	<p>Descriptive method, Direct teaching, Interpretation of data, Analysis of various terms Experiential learning through observation of different seasons and their characteristics</p> <p>Case studies, discussion on current issues, importance of Fundamental Rights</p>	Map Activity	<p>Activity- To find out the climatic condition of a given place and the factors responsible for it</p> <p>Group discussion</p>
10.	1.2. 24-15.2.24	11	Revision for Final exams.			

### **SYLLABUS FOR PERIODIC TEST 1**

**India size and location**

**The story of village Palampur**

**French Revolution**

**What is Democracy? Why Democracy?**

### **SYLLABUS FOR HALF YEARLY EXAM**

**French Revolution**

**Socialism and the Russian Revolution**

**Pastoralists in the modern world**

**India Size and Location**

**Physical features of India**

**What is democracy? Why democracy?**

**Constitutional design**

**The Story of Village Palampur**

**People as Resource**

### **SYLLABUS FOR PERIODIC TEST 3**

**Electoral Politics**

**Nazism and the rise of Hitler**

**Poverty as a challenge**

**Drainage**

### **SYLLABUS FOR FINAL EXAM**

**Complete Syllabus**

### **INTERNAL ASSESSMENT (20 Marks)**

**1.PORTFOLIO (Classwork/Assignments/Map Activities/ participation of students in different activities like Heritage India Quiz/ ) – 5 MARKS**

**2.PERIODIC TESTS Pen Paper Test – 5 Marks**

**3. Assessment using MULTIPLE STRATEGIES -For Example-Quiz, Inter disciplinary project , Debate, Role play, viva, Group Discussion, Visual Expression , interactive bulletin board, Gallery Boards, Exit cards, Concept Maps, Peer assessment, self assessment etc. 5 Marks**

**4.SUBJECT ENRICHMENT- (project on Disaster Management, Art Integrated Activity)- 5 MARKS**

# MATHEMATICS SYLLABUS

CLASS: IX (2023-24)

SEMESTER I

S. No.	Month	Chapter/Topic	No. of Teaching Periods	Concept Covered	Pedagogy (learner centred)	Art Integrated/Other Activities
1	April	Number System	15	Introduction to Number System, Classification of Real numbers, Difference between rational and irrational, Operations on Real numbers, Rationalization. Laws of exponents, Representation of Real numbers on Number-line (Spiral method)	Deductive, Brainstorming, Problem Solving.	Activity on construction of a Square Root Spiral.
		Co-ordinate Geometry	5	Cartesian plane, Terms and notations associated with Cartesian plane, identifying coordinates of point.	Problem Solving.	Art integrated activity on linked Union territory Lakshadweep, Andaman & Nicobar.
2	May	Linear equation in two variables	10	Standard form of linear equation in two variables, solution and its interpretation. Reading graph of linear equation in two variables, converting real-life word problems into equations	Deductive, Explicit instructions, Brainstorming.	Converting a real-life problem to equation and then drawing graph of it, for further conclusions.
		Lines and angles	10	Definition and classification of angles, special pair of angles (linear pair, vertically opposite angles, corresponding angles, alternate angles, co-interior angles)	Problem Solving method, Heuristic approach.	Activity on verifying exterior angle property of triangle.
3	July	Triangles	16	Meaning of congruency, Congruency criteria for triangles, Proof of ASA congruency Application of congruency (SAS, SSS, ASA), Application of congruency (RHS), Isosceles triangle property.	Problem Solving, Heuristic approach.	Activity on verifying triangle's inequality.

4	August	Statistics	17	Introduction to Statistics, Representation of data: bar graphs, histogram (with varying base lengths). Frequency polygon (with and without using histogram).	Inducto-deductive Problem-Solving method.	Art integrated activity on linked Union territory Lakshadweep, Andaman & Nicobar.
		Internal Assessments and Revision	7			Multiple assessment

### **PERIODIC ASSESSMENT: UNIT TEST I**

Ch-1: Number system

Ch-3: Coordinate Geometry

Ch-4: Linear equations in two variables

### ***SEMESTER II***

S. No.	Duration	Chapter/Topic	No. of Teaching Periods	Concept Covered	Pedagogy (learner centred)	Art Integrated/Other Activities
5	September	Polynomials	12	Definition and examples polynomial in one variable, Coefficients, Degree, Zero of polynomial, Classification of polynomials on the basis of degree and number of terms, Remainder theorem, Factor theorem (with proof), Factorisation.	Problem Solving, Inducto-deductive	
6	October	Polynomials <i>contd...</i>	10	Algebraic identities and its application.	<i>-do-</i>	Activity on algebraic identities.
		Quadrilaterals	11	Definition, Types and Properties of quadrilaterals, Mid-point theorem and its converse (motivate), Application of properties and theorems on questions.	Brainstorming, Inducto-deductive	Activity on verifying Mid-point theorem.
7	November	Surface area and Volume	21	Surface areas of cones and spheres (including hemispheres), Volumes of cones and spheres (including hemispheres).	Inducto-deductive, Heuristic, Problem Solving, Brainstorming.	Activity to form a Cone from a Sector of a Circle



8	December	Introduction to Euclid's Geometry	4	History-Geometry in India and Euclid's Geometry, Euclid's Axioms, Postulates, Playfair's axiom	Analytico-synthesis method.	Students can be asked to write small article on any one famous mathematical statement (like conjectures, paradoxes etc)
		Circles	6	Through examples, arrive at definition of circle and related concepts-radius, circumference, diameter, chord, arc, secant, sector, segment, theorems and its applications.	Brainstorming, Analytico-synthetic method	Activity on exterior angle of a cyclic quadrilateral is equal to its interior opposite angle.
9	January	Circles <i>contd...</i>	13	Concepts related to subtended angle, Theorems and its applications.	-do-	
		Heron's Formula	7	Area of triangle using Heron's formula.	Inducto-deductive Problem-Solving method.	Solving a real-life problem to find area of a field using heron's formula.
10	February	Internal Assessments and Revision	10			Multiple assessment

**PERIODIC ASSESSMENT: UNIT TEST II**

Ch-2: Polynomials

Ch-8: Quadrilaterals

Ch-11: Surface Area and Volume

Entire syllabus in FINAL EXAMINATION

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**PHYSICS SYLLABUS**  
**CLASS-IX (2023-24)**

**TERM-I**

S. No.	Duration	Chapter/Topic	No. of Teaching Periods	Syllabus Covered	Pedagogy (learnercentred)	Art Integrated/Other Activities
1.	April	<b>Motion</b>	4	Rest And Motion, Scalar and Vector Quantities, Distance and Displacement.	Demonstration, E- learning, Brainstorming, Computational thinking	Using experimental data compute the distance and displacement in various daily life situations.
2.	May	<b>Motion</b>	8	Speed And Velocity, Average speed And Velocity, Uniform Motion	Incidental Learning, Context Based Learning, Brainstorming	Plot position vs time graph for the following cases a) Stationary motion b)uniform motion c) non uniform motion
3.	July	<b>Periodic Test1 + Motion</b>	6	Acceleration, Uniformly Accelerated Motion, Equations Of Motion(Graphical Method)	E- learning, Brainstorming, Computational Thinking	Plot velocity vs time graph for the following cases and calculate slope in each case a)uniform acceleration b) non uniform acceleration c) deceleration
4.	August	<b>Laws Of Motion</b>	8	Newton's laws Of Motion, Momentum, Law Of Conservation Of Momentum	E-Learning, Experiential based learning, Argumentation, Incidental Based Learning	<b>Experiential based activity:</b> The students will be asked to perform fun filled activity to understand law of conservation of momentum using simple things like a balloon, a straw, thread, a pair of scissors and an adhesive tape.
5.	September	<b>Laws Of Motion+ Revision</b>	2	Applications Of Law Of Conservation of Momentum + Revision	Context Based Learning, Brainstorming	

**Note:** Students will be asked to record the practicals in their practical file as per the cbse syllabus.

**Periodic Test 1:**

Chapter-1: Motion

**Subject Enrichment Activity 1 :** Lab activities and their record.

**Multiple Assessment 1:**

Experiential Learning Activities, MCQ tests, Oral Tests, etc.

**Portfolio 1:** Assignments and Poster.

**TERM-II**

S. No.	Duration	Chapter/Topic	No. of Teaching Periods	Syllabus Covered	Pedagogy (learner centred)	Art Integrated/Other Activities
1.	September	<b>Gravitation</b>	4	Newton's Law Of Gravitation and Acceleration due to gravity	Activity oriented, Use of Multimedia, Demonstration	
2.	October	<b>Gravitation (Contd.)</b>	8	Mass and Weight, weightlessness, Floatation	E-Learning, Experiential based learning, Argumentation, Incidental Based Learning	Perform activity using thread, A ball, liquids of different Densities (if possible in the school or through O-Labs)
3.	November	<b>Work, Energy And Power</b>	6	Work and energy	Demonstration, E-learning, Computational Learning	Experiential Based Activity: Suppose that the book has a mass $m$ , and the table top is a distance $h$ above the floor. Write down an equation for the work $W$ done by gravity on the book as it falls from the table top to the floor

4.	December	<b>Revision + Work, Energy and Power (contd.)</b>	4	Power	Activity method, Experiential Learning , E-Learning	Data Analysis Of The Electrical Energy Consumed In A Normal Household and Calculate The Electricity Bill
5.	January	<b>Sound</b>	6	Wave Motion, categorisation of waves, characteristics of waves	Learning Through Argumentation, Incidental Learning, Computational Thinking	Design a poster showing two musical instruments each of the state of Delhi And Lakshdweep.
6.	February	<b>Sound (Contd.)+Revision</b>	2	Structure Of Human Ear	E- learning, Discussion, Concept based learning.	

**Periodic Test 2:**

Chapter-1: Gravitation

**Subject Enrichment Activity 1 :** Lab activities and their record.

**Multiple Assessment 1:**

Experiential Learning Activities, MCQ tests, Oral Tests, etc.

**Portfolio 1:** Assignments and Poster.

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**CHEMISTRY SYLLABUS****CLASS IX (2023-24)****TERM-I**

<b>S. No.</b>	<b>Duration</b>	<b>Chapter / Topic</b>	<b>Syllabus Covered</b>	<b>Pedagogy (learner centred)</b>	<b>Art Integrated / Other Activities</b>
1.	April 1 <sup>st</sup> – 30 <sup>th</sup>	Chapter 1: Matter in our surroundings	Definition of matter, States of matter, Characteristics of matter	Peer- learning, Critical thinking, Heuristic approach, Embodied learning, Inquiry based approach.	Activity to show the rate of diffusion using ink and honey
2.	May 1 <sup>st</sup> – 27 <sup>th</sup>	Chapter 1:- continued	Change of state: melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation.	Questioning, Visualization, Daily life experiences, interdisciplinary approach, Computational thinking, Reflective approach.	1. Activity to determine melting point of ice and boiling point of water using Olabs. 2. Infographic for factors affecting rate of evaporation.
3.	July 1 <sup>st</sup> – 31 <sup>st</sup>	Chapter 2:-Is matter around us pure	Elements, compounds and mixtures, Heterogeneous and homogenous mixtures.	Brainstorming, Argumentative, Incidental learning, Activity-oriented, E-learning.	Activity to prepare a saturated solution of salt and sugar and check if the temperature increases the solubility.
4.	Aug. 1 <sup>st</sup> -31 <sup>st</sup>	Chapter 2:- continued	Solutions, Colloids and suspensions, Separating the Components of a Mixture.	Student-teacher interaction, Visualization, Integrative approach, Experiential learning, Compare- contrast matrix.	1. Activity to distinguish between true solutions, colloids and suspensions using Olabs. 2. Mind map for separation of mixtures.
5.	Sept. 1 <sup>st</sup> – 18 <sup>th</sup>	Revision + Term-I Exam	-	-	-

**NOTE:**

Students will be asked to perform and record the practicals in their practical file as per the CBSE syllabus.

EXAM	UNIT/LESSON
UT-1	Chapter 1.
Term-1	Chapter 1 + Chapter 2.

**TERM-II**

S. No.	Duration	Chapter / Topic	Syllabus Covered	Pedagogy (learner centred)	Art Integrated / Other Activities
6.	Oct. 1 <sup>st</sup> – 31 <sup>st</sup>	Chapter 3:- Atoms and Molecules	Laws of Chemical Combination, Dalton and Modern Symbols, Atom and atomic mass.	Student – teacher interaction, Constructivist, collaborative learning, Independent practice, Creativity, Context based learning.	Jewellery design for first 18 elements of periodic table.
7.	Nov. 1 <sup>st</sup> – 30 <sup>th</sup>	Chapter 3:- continued	Molecules and ions, Chemical formulae, Molecular mass and Mole concept: Relationship of mole to mass of the particles and numbers.	Questioning, Constructivist, Problem solving, Communication, Compare- contrast matrix, Reflective and interdisciplinary approach.	Activity to write chemical formulae using play way methods such as game of cards.
8.	Dec. 1 <sup>st</sup> – 31 <sup>st</sup>	Chapter 4:- Structure of atom	Charged particles in matter: Electrons, protons and neutrons; Models of atom.	Constructivist, Interrogative approach, Creativity, Collaboration. Critical Thinking, Multimedia content.	PPT/Video for explaining structure of atom

9.	Jan. 1 <sup>st</sup> - 31 <sup>st</sup>	Chapter 4:- continued  Revision	Electron arrangement in different orbits; Valency; atomic number and mass number; Isotopes and Isobars.	Brainstorming, Problem solving, Communication, Integrative approach, Incidental learning.	3 D model for displaying electronic configuration of elements in different orbits.
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**NOTE:**

Students will be asked to perform and record the practicals in their practical file as per the CBSE syllabus.

EXAM	UNIT/CHAPTER
UT-2	Chapter 3.
Final	Entire syllabus.

**MONTFORT SCHOOL**  
**MONTHLY SYLLABUS (2023-24)**

**CLASS: IX**

**SUBJECT: BIOLOGY**

**TERM I**

S.No.	Duration	Chapter/Topic	Syllabus Covered	Pedagogy (learner centred)	Art Integrated/Experiential learning Activities
1.	April	Ch – 5 The Fundamental unit of life	Introduction Discovery of cell Cell theory Structural make up of cell Plasma membrane	Explanation and Discussion using audio visual aids or E-Learning Experiential learning, Activity based, E-Learning	Make models of different types of cells.  Study of osmosis with egg/raisins/apricots
2.	May	Ch – 5 The Fundamental unit of life	Cell wall Nucleus	Experiential learning, Activity based, E-Learning Explanation and Discussion using audio visual aids or E-Learning Lab skills oriented	Study of plasmolysis on a peel of <i>Rhoeo</i> leaf Preparation of Temporary mount of onion peel.
3.	July	Ch – 5 The Fundamental unit of life  Ch- 6 Tissues	Cytoplasm Cell organelles Cell division  Revision for UT 1 + Plant tissues Meristematic tissues  Simple Permanent Tissues Parenchyma Collenchyma	Explanation and Discussion using audio visual aids or E-Learning Lab skills oriented Experiential learning, Activity based, E-Learning	Observe and study the action of meristematic tissue in the roots of an onion bulb. Study the characteristics of simple permanent plant tissues with the help of permanent slides.
4.	August	Ch- 6 Tissues	Collenchyma Sclerenchyma Complex permanent tissues Xylem Phloem	Explanation and Discussion using audio visual aids or E-Learning Lab skills oriented Experiential learning, Activity based, E-Learning	Study the cross-section of the stem of a plant under the microscope.



5.	September	Revision and Examination	Revision + Term 1 Examination	Experiential learning, Activity based, E-Learning	Study the characteristics of Complex permanent plant tissues with the help of permanent slides.
6.		Revision and Examination	Term 1 Examination	Practice of HOTS and value based questions	

**TERM II**

7.	October	Ch- 6 Tissues	Animal Tissues Types of Epithelial tissues Muscular tissue Connective tissue Nervous tissue	Experiential learning, Activity based, E-Learning Explanation and Discussion using audio visual aids or E-Learning Lab skills oriented	Study the characteristics of types of muscular tissues in animals using a microscope. Observe blood cells under the microscope.
8.	November	Ch-10 Improvement in Food Resources	Crop variety improvement  Crop production management  Cropping pattern	Experiential learning, Activity based, E-Learning Explanation and Discussion using audio visual aids or E-Learning Lab skills oriented	Observe and study the type of weeds growing in your school garden and collect information from the gardener on how they handle them.
9.	December	Revision and Examination Ch-12 Improvement in Food Resources	Revision + UT 2  Crop protection management	Practice of HOTS and value based questions Experiential learning, Activity based, E-Learning	
10.	January	Ch-12 Improvement in Food Resources	Animal husbandry Cattle farming Poultry farming Fish production Honey production	Explanation and Discussion using audio visual aids or E-Learning Lab skills oriented Explanation and Discussion using audio visual aids or E-Learning Lab skills oriented	Visit a local poultry farm and observe the type of breeds and note the type of ration, facilities given to them.

11.	February	Revision and Examination	Revision and Examination Revision and Examination	Practice of HOTS and value based questions Practice of HOTS and value based questions	
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### EXAMINATION SCHEDULE

<b>Examination</b>	<b>Max Marks</b>	<b>Month</b>	<b>Syllabus covered</b>
Unit test – I	50 Marks	July	Chapter -5 The Fundamental Unit of Life
First Semester (Term I)	80 Marks	September	Chapter -5 The Fundamental Unit of Life Chapter -6 Tissues
Unit test – II	50 Marks	December	Chapter – 6 Tissues Chapter-12 Improvement in Food Resources
Final Exam(Term II)	80 Marks	February	Whole syllabus

**INFORMATION TECHNOLOGY SYLLABUS****CLASS-9 (2023-24)****TERM-I**

S. No.	Duration	Chapter/Topic	No. of Teaching Periods Per week	Syllabus Covered	Pedagogy (learner-centred)	Art Integrated/Other Activities
1	April	<b>Digital Documentation</b>	2	Text Editing- Cut, Copy, Paste, Undo, Redo. Character formatting, Superscript, subscript, format paintbrush, Alignment, Spell check,	Demonstration of the software, Activity oriented	Write a paragraph and format it using formatting features and save the file.
2	May	<b>Digital Documentation</b>	2	Page orientation, Change case, Bullets and numbering, Find and Replace, inserting images, image properties Mail merge	Activity oriented, creative skills, Demonstration through screen sharing	Create a list of subjects. Insert an image in the document, crop it, use filter effects, apply text wrapping. Create mailing list
4	July	<b>Spreadsheet (Open office Calc)</b>	2	Workbook and worksheet -Basic calculations -Format cells	Demonstration, e-learning, Activity oriented	Create a worksheet to enter students name and marks of 5 subjects. Find total marks. Change the color of the cells.
5	August	<b>Functions and formulas in a Spreadsheet</b>  <b>ICT skills</b>	2	Functions in Open office Calc. Components of computer system, Working with files and folders.	Practical session, demonstration	Use MAX, MIN, AVERAGE, SUM functions in a worksheet Write application area of various input / output devices.
6	September	<b>Cell referencing in Spreadsheet</b>  <b>Self management skills</b>	2	Cell referencing, creating charts Importance of positive attitude, self confidence, grooming.	Activity oriented, Demonstration, practical exercise	Use absolute referencing to calculate simple interest for a given principle amount, time, keeping rate fixed. Represent data visually using charts.

**Subject Enrichment Activity 1:**

Project work, Practical sessions through screen sharing, Project work.

**Multiple Assessment 1:**

Experiential Learning Activities, MCQ tests, Practical Tests, etc.

## TERM-II

S. No.	Duration	Chapter/ Topic	No. of Teaching Periods Per week	Syllabus Covered	Pedagogy (learner-centred)	Art Integrated/Other Activities
1	October	<b>Spreadsheet (Advanced)</b>	2	Data consolidate Subtotal What if analysis tools	Activity oriented, Brainstorming, demonstration	Consolidate data of different sections into a master sheet. Use scenarios and multiple operations to solve what if analysis questions.
2	November	<b>Spreadsheet (Advanced) Entrepreneur skills</b>	2	What if analysis tools Types of business activities, Role of entrepreneur	Brainstorming, inductive learning.	Use goal seek and solver to achieve a target value Identify core skills of an entrepreneur and how they help the society in which they live.
3	December	Spreadsheet (Advanced)	2	Link data and spreadsheets Record changes, comparing and merging sheets Using macros	Brainstorming, Hands on lab exercises Inductive- Deductive	Sharing worksheets, record changes, accept and reject changes. Create macro to save a sequence of command.
4	January	<b>Digital presentation (Open office Impress)  Green skills</b>	2	Creating, saving and viewing a presentation, Transitions and animations	Activity oriented, demonstration, Practical session	Make a presentation on Green skills implemented through waste management, water management, green transport, green building etc. Give animation and transition effect on the presentation.
5	February	<b>Assessment, Revision</b>	2	Practical test, revision , internal assessments	Activity Method, Practical exercise	Practical exercise based on Open office Calc, Impress

### **Subject Enrichment Activity 2:**

Practical Activities, Experiential Learning Activities, project work.

### **Multiple Assessment 2:**

MCQ tests, Practical sessions, Oral test etc.

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# ART EDUCATION (Class IX)

## SEMESTER I

### April to July 2023

*Two dimensional or pictorial works*

**Topic:** Drawing and Colouring

- 1) Fashion Drawing
- 2) Garment Designing/dress designing
- 3) Indian traditional art
- 4) Cartoons and Caricature

### August to September 2023

**Topic:** Painting

- 1) Water colour painting
- 2) Pastel/Pencil Colour painting

## SEMESTER II

### October 2023

**Topic:** Calligraphy Art

### November to December 2023

**Topic:** Collage Painting

### January to February 2024:

*Three dimensional or Sculptural Activities*

**Topic:** Clay Modelling

- 1) Making different forms and shape with clay
- 2) Making shapes and forms of human figures, Birds, Animals, Vegetables, Fruits, Jewelry etc.

## **HOLIDAY HOMEWORK**

Picture composition on 1/4th cartridge sheet and colour it in any medium.

## Syllabus Class IX

### Work Ex./ Value education

#### Semester I

1. Education System.
2. Don't Quit (Poem)
3. Chapter 1 : Act of Valour
4. Chapter 2 : The Dream
5. Chapter 3 :The Beauty of Difference
6. Chapter 4 : Honesty comes from Heart
7. Career Seminar (July)

#### Semester II

1. The Comfort zone (Poem)
2. Chapter 5 : The Model Millionaire
3. Chapter 6 : Happiness comes from within
4. Chapter 7 : An unfulfilled Promise
5. Chapter 8 : The Well
6. Chapter 9 : Hope in the Ruins
7. Chapter 10: A Change for good

Project : Chapter II Managing Anger

## Physical Education Syllabus- 2023-24

### Class-IX

Semester 1	<ol style="list-style-type: none"><li>1. Track and field events (boys and girls):<ul style="list-style-type: none"><li>• Rules and Regulations</li><li>• Measurements</li><li>• Techniques</li><li>• 100 m Race</li><li>• 200 m Race</li><li>• 400 m Race</li><li>• 4X100 m Race</li><li>• Shot Put</li></ul></li><li>2. Standing Broad Jump (fitness test)</li><li>3. Preparation of intersection teams</li><li>4. Height and Weight (boys and girls)</li></ol>
<u>Semester 2</u>	<ol style="list-style-type: none"><li>1. Cricket ..... (boys and girls)<ul style="list-style-type: none"><li>• Practice of techniques learnt in previous classes</li><li>• Game Practice</li></ul></li><li>2. Volleyball..... (boys)<ul style="list-style-type: none"><li>• Rules and Regulations</li><li>• Measurements</li><li>• Under arm Service</li><li>• Under arm Pass</li><li>• Rotation</li></ul></li><li>3. Throw ball .....(girls)<ul style="list-style-type: none"><li>• Rules and Regulations</li><li>• Measurements</li><li>• Service</li><li>• Catching and Throwing Techniques</li></ul></li><li>4. Shuttle Run (fitness test)</li><li>5. March Past</li></ol>