

*Ideas are nobody's property; they belong to whoever expresses them best.*  
– Emilio Cecchi

Class IX

## City Montessori School, Lucknow

### Syllabus 2025 – 2026

#### Class IX

S.No.	Subject	Pages
1.	Moral Education	6
2.	English Language	7
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15.	Physical Education	41
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17.	Robotics & Artificial Intelligence	45

**NOTE:** Please refer to ICSE Council Syllabus and Scope of Syllabus 2027 for further reference.

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#### AIMS AND OBJECTIVES

##### MORAL EDUCATION:

1. To develop in every student the essential elements of morality.
2. To develop the values and capabilities necessary for making right decisions and upright conduct.
3. To develop in them the attitude of open mindedness, to appreciate and be ready to accept others and to act constructively, not defensively.
4. To develop the skill of striving not only for good but to handle the conflicting situations without demeaning self and others.
5. To develop the ability to monitor themselves and find out constructive ways of conflict resolutions.
6. To promote the development of good character for the purpose of lessening crime and raising the standard of good citizenship.

##### ENGLISH:

1. To develop and integrate the use of four language skills i.e. listening, speaking, reading and writing.
2. To enhance the ability of the candidates to express their ideas and feelings in their own words and to understand the use of current English.
3. To provide candidates with exposure to good and appropriate literature in English.
4. To develop an interest in the appreciation of literature.
5. To use English effectively and appropriately.

##### HINDI:

1. To appreciate the language as an effective means of communication.
2. To acquire knowledge of the elements of the language.
3. To develop an interest in the language.
4. To understand the language when spoken at normal conversational speed.
5. To understand the basic structural patterns of the language, vocabulary and constructions.

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**HISTORY AND CIVICS:**

1. To provide an understanding of the government, necessary for the student to grow into a responsible enlightened citizen in a secular democracy.
2. To enrich the understanding of those aspects of Indian historical development which are crucial to the understanding of contemporary India.
3. To awaken a desirable understanding in pupils of the various streams which have contributed to the development and growth of the Indian nation and its civilization and culture.
4. To develop a world historical perspective of the contributions made by various cultures to the total heritage of mankind.

**GEOGRAPHY:**

1. To develop an understanding of terms, concepts and principles related to geography.
2. To explain the cause-effect relationships of natural phenomena.
3. To understand the patterns and processes that affect human response to natural environment.
4. To understand the use of natural resources and development of regions by mankind.
5. To acquire knowledge of and appreciate the interdependence of nations and different regions of the world.
6. To know the availability of resources, understand, explain their uses and appreciate the problems of development.
7. To acquire practical skills related to the meaning and use of maps and their use in the study of geography.

**MATHEMATICS:**

1. To acquire knowledge and understanding of the terms, symbols, concepts, principles, processes, formulae, theorems etc of mathematics.
2. To develop an understanding of mathematical concepts and their application to further studies in mathematics and science.
3. To develop skills to apply mathematical knowledge to solve real life problems.
4. To develop the necessary skills to work with modern technological devices such as calculators and computers.
5. To develop drawing skills, skills of reading tables, charts and graphs.
6. To develop an interest in mathematics.

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**PHYSICS:**

1. To acquire knowledge of the terms, facts, concepts, definitions, laws, principles and processes of Physics.
2. To develop skills in practical aspects of handling apparatus, recording observations, drawing diagrams, graphs and in deducing inferences.
3. To develop instrumental, communication and problem solving skills.
4. To discover that there is a living and growing Physics relevant to the modern age in which we live.

**CHEMISTRY:**

1. To acquire the knowledge of terms, concepts, processes, techniques and principles related to the subject.
2. To develop the ability to apply the knowledge of contents and principles of Chemistry in unfamiliar situations.
3. To acquire skills in proper handling of apparatus and chemicals.
4. To develop scientific temper, attitude and problem solving skills.

**BIOLOGY:**

1. To acquire the knowledge of the economic importance of plants and animals.
2. To develop an understanding of the inter-relationship between sustainability and environmental adaptations.
3. To develop an understanding of the interdependence of plants and animals; to enable pupils to acquire a clear comprehension of the significance of life and its importance in human welfare.
4. To understand the capacities and limitations of all the biological and economic activities so as to be able to use it for a better quality of life.
5. To acquire the ability to observe, experiment, hypothesise, infer, handle equipments accurately and make correct recordings.

**ECONOMICS:**

1. To acquire the knowledge of terms, facts, concepts, principles, trends, assumptions etc.
2. To develop familiarity with the basic terminology and elementary ideas of Economics.
3. To acquire knowledge of contemporary economic problems and to appreciate the efforts being made to solve these problems.

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4. To develop an understanding of the nation's physical and human resources and avoiding their misuse.
5. To understand the various economic processes that help in improving our standard of living.
6. To acquire skills in interpreting simple statistical data.

**COMPUTER APPLICATIONS:**

1. To develop an understanding of the basic programming concepts and structures.
2. To understand and appreciate the importance of Java as one of the object oriented programming language.
3. To apply programming concepts in finding the solutions to real life situations by building their own applications.

**COMMERCIAL STUDIES:**

1. To enable students to develop a perceptive, sensitive and critical response to the role of business in a global, national and local context.
2. To allow students to balance the demands of social parameters with individual aspirations.
3. To develop in students an appreciation for the roles of an entrepreneur and the professional manager.
4. To develop a co-operative attitude through study of the organisation and participation associated with commerce and industry.
5. To provide an appropriate body of knowledge and understanding, and to develop appropriate skills as a basis for further study or work or both.

**ENVIRONMENTAL SCIENCE:**

1. To acquire knowledge of the origin and functioning of the natural system and its correlation with the living world.
2. To appreciate the influence of human activity on natural processes.
3. To develop an awareness of the need and responsibility to keep the natural system in a condition that it sustains life.
4. To develop sensitivity in personal attitudes to environmental issues.

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**MORAL EDUCATION FOR CLASS 9**

**Name of the Textbook:** The Pathfinders Book I  
**Publisher:** Royale Publishers

APRIL – SEPTEMBER (First Term)		
Suggested Month	Chapter Number	Page
April – May	1 – What is Destined for me	1-5
July	2 – The Pathfinders	6-10
August	3 – Determinism and God's Foreknowledge	11-16
September	Revision and Discussion	

OCTOBER – MARCH (Second Term)		
Suggested Month	Chapter Number	Page
October	4 – Laws and Free Will	17-21
November	5 – Truth Empowers	22-27
December	Revision and Discussion	

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## ENGLISH LANGUAGE

**Name of the Textbooks:** 1. Total English for ICSE Class 9  
 2. Supplementary Reader – Animal Farm

**Authors:** 1. Xavier Pinto, P Pinto & Dr Avanti  
 Nisha  
 2. George Orwell

**Publishers:** 1. Morning Star  
 2. Scholastic

APRIL – SEPTEMBER (FIRST TERM)	
Suggested Month	Name of the Topic
April – July	Agreement of Verb with Subject
	Practice Paper 2
	Informal Letter
	<b>Descriptive Essay</b>
	Active and Passive Voice
	Direct and Indirect Speech
	Tenses and Their Uses I, II
	The Sequence of Tenses
	Prepositions
	Practice Paper 3
	Transformation of Sentences – I, II
	Comprehension and Precis Writing
	Formal Letter
	Synthesis of Sentences
	Comparison of Adjectives
	Notice and Email
	Complete Functional Grammar
	Conditional Sentences
July	<b>FIRST MID TERM ASSESSMENT</b>

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August-September	Practice Paper 4
	Comprehension and Precis Writing
	Informal Letter / Formal Letter
	Complete Functional Grammar
	Practice Paper 5
	<b>Story Writing</b>
	<b>* Supplementary Reader - Animal Farm – Chapter 1 – 6</b>
September	<b>REVISION</b>
<b>September</b>	<b>HALF-YEARLY EXAMINATION</b>

OCTOBER – MARCH (SECOND TERM)	
October – November	Practice Paper 6
	Practice Paper 7
	<b>Narrative Essay</b>
	Complete Functional Grammar
	Notice and Email
December	<b>SECOND MID TERM ASSESSMENT</b>
December-February	<b>Argumentative Essay</b>
	Practice Paper 8
	Informal Letter
	Comprehension and Precis Writing
	Complete Functional Grammar
	Practice Paper 9
	<b>Picture Composition</b>
	Formal Letter
	Comprehension and Precis Writing
	Complete Functional Grammar
	<b>* Supplementary Reader - Animal Farm – Chapter 7 – 10</b>

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February	<b>REVISION</b>
<b>February</b>	<b>ANNUAL EXAMINATION</b>

- \* Supplementary Reader – 'Animal Farm' will be assessed in the Term-end examinations. Students are expected to read the Supplementary Reader independently at home and prepare accordingly. This is not to be taught in class.
- \* Unit Project – Oral & Aural Assessment

**PAPER I – English Language (80 marks) – 2 hours (Please refer to the Council Syllabus 2027)**

Five questions will be set, all of which will be compulsory.

**Question 1** – Composition (300 – 350 words) – 20 marks

**Question 2** – Letter (Formal / Informal) – 10 marks

**Question 3** – Notice and Email – 10 marks

**Question 4** – Comprehension (about 450 words) – 20 marks

**Question 5** – Functional grammar, structure and usage – 20 marks

- Note:** (i) Oral and Aural assignments for the first term to be taken up at branch level between July to September and for the second term to be taken up between November to January.
- (ii) Please note the following suggestions for a formal letter addressed to 'The Editor'.
- (a) **ONLY** Sir / Madam to be written in salutation. Use of 'Dear' should be omitted.
  - (b) Subscription to be written as 'Yours truly'.
  - (c) Prescribed word limit for Precis Writing should be 50 words in accordance with the specimen paper sent by the Council.

**INTERNAL ASSESSMENT**

**Paper I – ENGLISH LANGUAGE [20 marks]**

142. Schools will prepare, conduct and record assessments of the **Listening and Speaking Skills** of candidates as follows:

Class IX: Three assessments in the course of the year.

Class X: Two assessments in the course of the year.

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**2. Pattern of Assessment**

**(a) Listening Skills**

A passage of about 300 words is read aloud by the examiner *twice*, the first time at normal reading speed (about 110 words a minute) and the next time at a slower speed. Candidates may make brief notes during the readings. They then answer an objective type test based on the passage, on the paper provided.

The recommended number of candidates at a sitting is 30.

**(b) Speaking Skills**

Each candidate is required to make an oral presentation of about two minutes, which will be followed by a discussion on the subject with the examiners, for about three minutes.

Subjects for presentation may include narrating an experience, providing a description, giving directions how to make or operate something, expressing an opinion, giving a report, relating an anecdote or commenting on a current event.

A candidate may refer to brief notes in the course of the presentation but reading or excessive dependence on notes will be penalised.

It is recommended that candidates be given an hour for preparation of their subject for presentation and that they be given a choice of subject, on a common paper.

**Evaluation**

The assessment will be conducted jointly by the subject teacher and the external examiner who will each assess the candidate. (The External Examiner may be a teacher nominated by the Head of the School who could be from the faculty **but not teaching the subject in the section / class**. For example, a teacher of English of Class VIII may be deputed to be an External Examiner for Class X.)

**Award of Marks**

Listening Skills: 10 marks

Speaking Skills: 10 marks

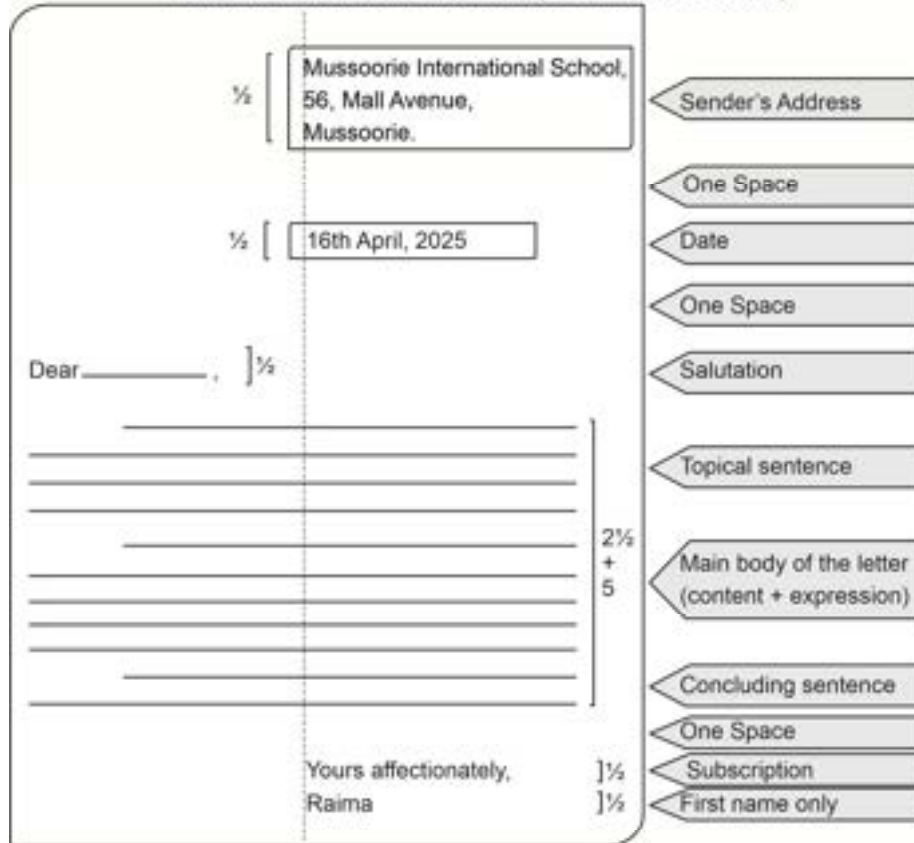
The total marks obtained out of 20 are to be sent to the Council by the Head of the School. The Head of the School will be responsible for the entry of marks, on the mark sheets provided by the Council.

Schools are required to maintain a record of all assessments conducted in Listening and Speaking Skills for candidates of Class IX and X. These include copies of the assessment tests, topics for presentation and marks awarded. The record will be maintained for a period of 2 months after the ICSE (10) examinations of the candidates concerned.

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Class IX

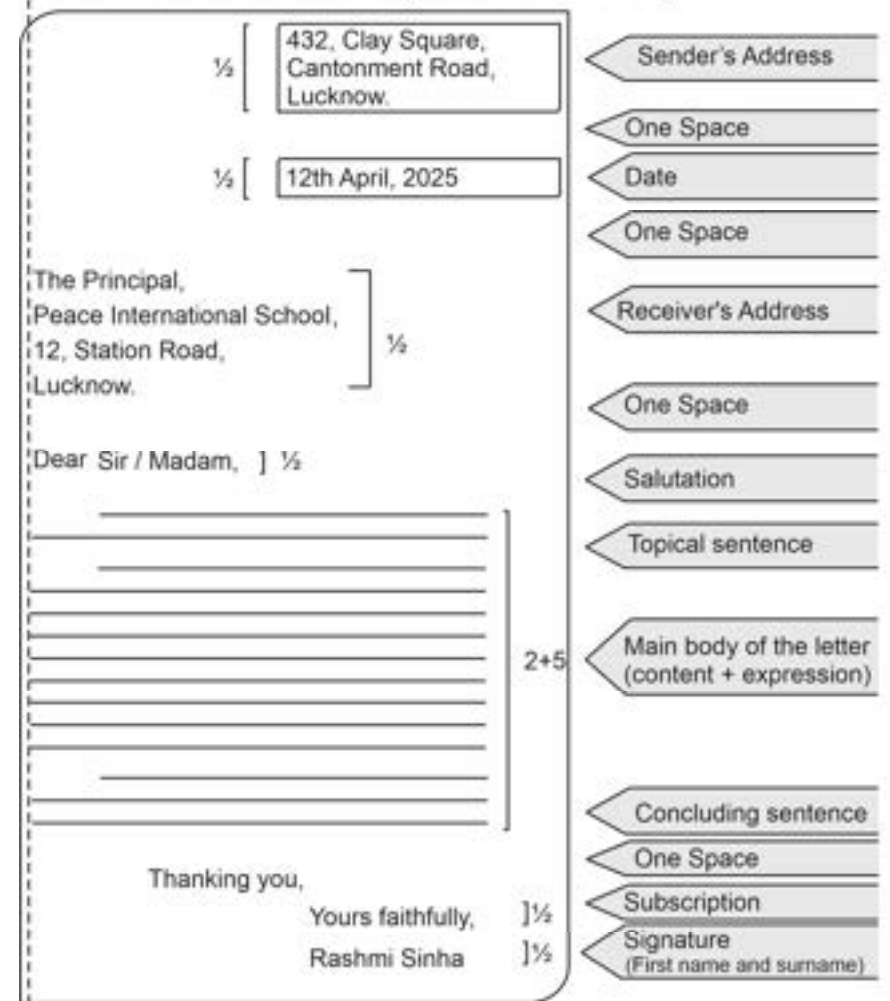
**Format of an Informal letter (Traditional Format)**



Format:  $2\frac{1}{2}$  Marks  
 Content:  $2\frac{1}{2}$  Marks  
 Expression: 5 Marks  
 Total: 10 Marks

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**Format of a Formal Letter (Traditional Format)**



Format: 3 Marks  
 Content: 2 Marks  
 Expression: 5 Marks  
 Total: 10 Marks

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**SPECIMEN FOR NOTICE**

War of Words [1]  
 Inter-school Debate Competition [1]  
 on 8<sup>th</sup> December, 2025 [½]  
 from 9.00 a.m. to 12 noon [½]  
 at Centenary Hall, St. Hilda's School [½ + ½]  
 All pupils from Classes IX & X who wish to participate are to give their names to Mrs. T. Baker on or before 1<sup>st</sup> December 2025 [1]

**SPECIMEN FOR EMAIL**

[principalbluebellschool@gmail.com](mailto:principalbluebellschool@gmail.com) [½]  
 Invitation for the Inter-school Debate Competition [½]  
 Dear Madam, [½]  
 This is to inform you that our school is celebrating its 50<sup>th</sup> anniversary this year. As part of the celebrations we are hosting a series of competitions and we are beginning with 'War of Words', an inter-school debate competition. } Opening Sentence [½]  
 It will be held on 8<sup>th</sup> December 2025 from 9.00 a.m. till 12 noon in the Centenary Hall of St. Hilda's School.  
 Please do send your senior debate team to participate in the event. } Body [2]  
 The topic will be given to the participants an hour before the start of the competition. They may bring their laptops for use during the preparation time.  
 We look forward to your school's participation in the competition. [½]  
 Thanking you,  
 Yours faithfully, [½]  
 Ashish Roy  
 Debating Secretary

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**LITERATURE IN ENGLISH**

**Name of the Textbooks:** 1. Julius Caesar  
 2. Treasure Chest – A Collection of ICSE Poems and Short Stories  
**Author:** William Shakespeare  
**Publishers:** 1. S. Chand & Company Ltd.  
 2. Evergreen Publication (India) Ltd.

APRIL – SEPTEMBER (FIRST TERM)	
Suggested Month	Name of the Chapter
April – July	<b>Julius Caesar</b>
	Act I Scene I and II
	<b>Treasure Chest – A Collection of ICSE Poems and Short Stories</b>
	Bonku Babu's Friend (Short Story)
	The Night Mail (Poem)
July	<b>FIRST MID TERM ASSESSMENT</b>
August-September	<b>Julius Caesar</b>
	Act I Scene III
	<b>Treasure Chest – A Collection of ICSE Poems and Short Stories</b>
	Oliver Asks for More (Short Story)
	The Model Millionaire (Short Story)
	Skimbleshanks: The Railway Cat (Poem)
	I Remember, I Remember (Poem)
September	<b>REVISION</b>
September	<b>HALF YEARLY EXAMINATION</b>

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OCTOBER – MARCH (SECOND TERM)	
October – November	<b>Julius Caesar</b>
	Act II Scene I
	<b>Treasure Chest – A Collection of ICSE Poems and Short Stories</b>
	The Home-coming (Short Story)
	A Doctor's Journal Entry for August 6, 1945 (Poem)
December	<b>SECOND MID TERM ASSESSMENT</b>
December-February	<b>Julius Caesar</b>
	Act II Scene II, III and IV
	<b>Treasure Chest – A Collection of ICSE Poems and Short Stories</b>
	The Boy who Broke the Bank (Short Story)
	A Work of Artifice (Poem)
February	<b>REVISION</b>
<b>February</b>	<b>ANNUAL EXAMINATION</b>

**PAPER II – Literature in English (80 marks) – 2 hours**

Candidates will be required to answer **questions based on** the prescribed textbooks, which include **drama, prose and poetry**. (Please refer to the Council Syllabus 2027)

**Internal Assessment/Unit Project**

Two or three assignments of approximately 300 to 400 words each.

Topics for Unit Project –

Prose – Bonku Babu's Friend / The Model Millionaire

Poetry – I Remember, I Remember / The Night Mail

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**Assignments/Unit Projects should be based on the prescribed textbooks on the following lines:**

- (i) Character / thematic analysis
- (ii) Socio-economic, cultural, historical relevance / background
- (iii) Summary / paraphrase
- (iv) Appreciation of literary qualities
- (v) Identifying with a character. Putting oneself in the place of a character in given circumstances and explaining one's actions
- (vi) Imagine alternative outcomes or endings in a literary piece and the effect on all concerned.
- (vii) Making a graphic representation of a scene/story/poem.
- (viii) Assume the persona of one of the characters (from the play/poem/story) and record a diary entry of a particular incident/episode.
  - The topics for Unit Project will be assessed in the Term End Examinations.
  - Kindly note that the students shall be tested on the entire course in English Literature in the Annual Examination.



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## हिंदी

Name of Textbook:

- सरस हिन्दी व्याकरण
- साहित्य सागर (A Collection of ICSE Short Stories & Poems)

Publication

ऐवरग्रीन पब्लिकेशन्स  
ऐवरग्रीन पब्लिकेशन्स

APRIL – SEPTEMBER			
Suggested Month	Chapter No.	Name of the Chapter	Page
April-July		पत्र – औपचारिक	
		चित्र-अध्ययन (मौखिक अभ्यास)	
		पत्र – अनौपचारिक	
	1	बात अठन्नी की (सुदर्शन)-कहानी	6
	1	साखी (कबीरदास)	74
		व्यावहारिक व्याकरण	
		निबंध – वर्णनात्मक	
		अपठित गद्यांश	
		निबंध – सूक्ति परक	
	2	काकी (सियारामशरण गुप्त) – कहानी	10
	4	वह जन्मभूमि मेरी (सोहन लाल द्विवेदी) कविता	82
July		<b>FIRST MID TERM</b>	
August	2	गिरिधर की कुंडलियाँ (गिरिधर कविराय)	76
September	4	नेताजी का चश्मा (स्वयं प्रकाश) – कहानी	20
		व्यावहारिक व्याकरण	
		पुनरावृत्ति	
September		<b>HALF-YEARLY EXAMINATION</b>	

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OCTOBER – MARCH			
October – November	3	स्वर्ग बना सकते हैं (दिनकर)	79
		व्यावहारिक व्याकरण (मौखिक)	
	5	अपना अपना भाग्य (जैनेन्द्र) – कहानी	26
		निबंध – विचारात्मक – (पक्ष / विपक्ष)	
	3	महायज्ञ का पुरस्कार (यशपाल) कहानी	14
December		<b>SECOND MID TERM</b>	
	6	बड़े घर की बेटी (प्रेमचंद) – कहानी	32
		चित्र अध्ययन (परियोजना कार्य) (Unit Project)	
		निबंध – कल्पनात्मक	
	5	मेघ आए (सर्वेश्वर दयाल सक्सेना)	84
January	6	सूर के पद (सूरदास)	86
		व्यावहारिक व्याकरण	
February		पुनरावृत्ति	
February		<b>ANNUAL EXAMINATION</b>	

**Note:**

- Refer to the Council Syllabus 2027 for details.
- Unit Project topics will also be tested in the examination.

औपचारिक पत्र (प्रारूप काउन्सिल के अनुरूप)

नोट: दोनों पत्रों में प्रारूप के लिए 2 अंक, विषय-वस्तु के लिए 5 अंक।

प्रेषक का पता	सरस्वती सदन, तिलक पथ, दिल्ली - (पिनकोड)
एक लाइन छोड़ें	
दिनांक	28 मार्च, 2018
एक लाइन छोड़ें	
प्राप्तकर्ता का पता	सेवा में, संपादक महोदय, दैनिक जागरण, राजवीर नगर, दिल्ली - (पिनकोड)
एक लाइन छोड़ें	
संक्षिप्त मूल विषय	विषय: _____
एक लाइन छोड़ें	
सम्बोधन	महोदय/महोदया, सविनय निवेदन है कि _____
प्रारंभिक वाक्य तथा मुख्य कारण	_____।
एक लाइन छोड़ें	
विषय विस्तार	_____।
एक लाइन छोड़ें	
अंतिम अनुच्छेद	आशा है/अनुरोध है _____।
एक लाइन छोड़ें	
अंतिम वाक्य	कष्ट के लिए क्षमा कीजिएगा।
एक लाइन छोड़ें	
अन्त	धन्यवाद।
एक लाइन छोड़ें	
समापन	भवदीय/भवदीया नाम _____

नोट - निम्नलिखित पत्रों में प्रेषक का पता अनिवार्य नहीं है तथा समापन निम्न प्रकार से किया जा सकता है।  
आपका आभारगर्भ / आपकी आभारगर्भिणी,  
नाम - \_\_\_\_\_  
कक्षा - \_\_\_\_\_ प्रभाग - \_\_\_\_\_  
दिनांक - \_\_\_\_\_

अनौपचारिक पत्र (प्रारूप काउन्सिल के अनुरूप)

प्रेषक का पता	12, राम निवास, गाँधी पथ, पवई, मुंबई - (पिनकोड)
एक लाइन छोड़ें	
दिनांक	28 मार्च, 2018
एक लाइन छोड़ें	
सम्बोधन	पूज्य/प्रिय, सप्रेम नमस्कार।
एक लाइन छोड़ें	
प्रारम्भ	मैं यहाँ _____
एक लाइन छोड़ें	
मुख्य विषय	_____।
एक लाइन छोड़ें	
समापन	सभी बड़ों को _____।
एक लाइन छोड़ें	
पत्र के अनुरूप	आपका/तुम्हारा नाम _____

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## HISTORY AND CIVICS

Name of the Textbook: Total History and Civics 9

Author: Dolly Ellen Sequeira

Publisher: Morning Star

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
		<b>HISTORY</b>	
April – July	1	The Harappan Civilisation	5-18
	2	The Vedic Period	19-33
		<b>CIVICS</b>	
	1	Our Constitution	144-150
	2	Salient Features of the Constitution – I	151-163
July		<b>FIRST MID TERM ASSESSMENT</b>	
		<b>CIVICS</b>	
August	3	Salient Features of the Constitution – II	164-170
		<b>HISTORY</b>	
	3	Jainism and Buddhism	34-48
	4	The Mauryan Empire	49-57
		<b>HISTORY</b>	
	5	The Sangam Age	58-66
	6	The Age of the Guptas	67-77
	7	Medieval India – (A) The Cholas	78-86
September		<b>REVISION</b>	
September		<b>HALF-YEARLY EXAMINATION</b>	

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– Emilio Cecchi

OCTOBER – MARCH			
		<b>HISTORY</b>	
October – November	8	Medieval India – (B) The Delhi Sultanate	87-93
	9	Medieval India – (C) The Mughal Empire	94-104
		<b>CIVICS</b>	
	4	Elections	171-177
		The State Legislatures	
December		<b>SECOND MID TERM ASSESSMENT</b>	
		<b>HISTORY</b>	
December	10	Medieval India – (D) Composite Culture	105-115
	11	The Modern Age in Europe – (A) Renaissance	116-126
		<b>HISTORY</b>	
January	12	The Modern Age in Europe – (B) Reformation	127-132
	13	The Modern Age in Europe – (C) Industrial Revolution	133-142
February		<b>REVISION</b>	
February		<b>ANNUAL EXAMINATION</b>	

### Note:

- A single notebook / register has to be maintained for History and Civics.
- It is advisable to follow the pattern of the question paper while doing written work.

Please refer to the Council Syllabus 2027 for details.

UNIT PROJECT	
Month	Topic
August	Salient Features of the Constitution II (DPSP)

- The topic of the Unit Project will also be tested in the examination.
- Project submission date – 20<sup>th</sup> August, 2025.

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Class IX

## GEOGRAPHY

**Name of the Textbook:** Total Geography – 9 (ICSE)  
**Author:** Jasmine Rachel, Dolly E. Sequeira & P.S.Latika  
**Publisher:** Morning Star

APRIL – SEPTEMBER			
Suggested Month	Topic Number	Name of the Topic	Page
April – July	1	Earth as a Planet	7
	2	Geographic Grid	16
	3	Rotation and Revolution	26
	4	Earth's Structure	36
		<b>Map Work – (The Oceans, Seas, Gulfs, Straits and Rivers)</b>	
<b>July</b>		<b>FIRST MID TERM ASSESSMENT</b>	
	7	Volcanoes	60
	8	Earthquakes	66
August-September	5	Landforms of the Earth	41
	6	Rocks	49
	9	Weathering	74
	10	Denudation	80
	11	Hydrosphere	89
		<b>REVISION</b>	
<b>September</b>		<b>HALF-YEARLY EXAMINATION</b>	

OCTOBER – MARCH			
October – November	12	Composition and Structure of the Atmosphere	100
	13	Insolation	108
	15	Humidity	127
		<b>Map Work – Mountains, Plateaus and Water Bodies</b>	
December		<b>SECOND MID TERM ASSESSMENT</b>	

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December-February	14	Atmospheric Pressure And Winds	114
	16	Pollution	135
	17	Sources of Pollution	139
	18	Effects of Pollution	146
	19	Preventive Measures	154
	20	Natural Regions of the World	162
		<b>Map Work – Natural Regions of the World</b>	
		<b>Project: Pollution</b>	
		<b>REVISION</b>	
<b>February</b>		<b>ANNUAL EXAMINATION</b>	

### Map Work:

**The Oceans, Seas, Gulfs and Straits** – All Major Oceans, Caribbean Sea, North Sea, Black Sea, Caspian Sea, South China Sea, Mediterranean Sea, Gulf of Carpentaria, Hudson Bay, Persian Gulf, Gulf of Mexico, Gulf of Guinea, Bering Strait, Strait of Gibraltar, Strait of Malacca.

**Rivers** — Mississippi, Colorado, Amazon, Paraguay, Nile, Zaire, Niger, Zambezi, Orange, Rhine, Volga, Danube, Murray, Darling, Hwang Ho, Yangtse Kiang, Ob, Indus, Ganga, Mekong, Irrawaddy, Tigris, Euphrates.

**Mountains** — Rockies, Andes, Appalachian, Alps, Himalayas, Pyrenees, Scandinavian Highlands, Caucasus, Atlas, Drakensberg, Khinghan, Zagros, Urals, Great Dividing Range.

**Plateaus** — Canadian Shield, Tibetan Plateau, Brazilian Highlands, Patagonian Plateau, Iranian Plateau, Mongolian Plateau.

**The Major Natural Regions of the World** – Equatorial, Tropical Monsoon, Tropical Deserts, Mediterranean type, Tropical grasslands, Temperate grasslands, Taiga and Tundra.

### Note:

- Please refer to the Council Syllabus 2027 for further details.

**Class IX**

**MATHEMATICS**

**Name of the Textbook:** Understanding ICSE Mathematics  
Class IX (Edition: 2025)

**Author:** M. L. Aggarwal

**Publisher:** Avichal Publishing Company

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
April-May	3	Expansions	68
	4	Factorisation	88
	7	Quadratic Equations	143
	5	Simultaneous Linear Equations (Unit Project)	106
	6	Problems on Simultaneous Linear Equations (Unit Project)	124
July	10	Triangles	180
	8	Indices	148
		<b>REVISION</b>	
<b>July</b>		<b>FIRST MID TERM ASSESSMENT</b>	
August	9	Logarithms	163
	1	Rational and Irrational Numbers	1
	2	Compound Interest	40
	11	Mid-point Theorem	227
September	19	Coordinate Geometry	441
		<b>REVISION</b>	
<b>September</b>		<b>HALF-YEARLY EXAMINATION</b>	

OCTOBER – MARCH			
October-November	12	Pythagoras Theorem	242
	13	Rectilinear Figures	259
	20	Statistics	472
	15	Circle	322

		<b>REVISION</b>	
<b>December</b>		<b>SECOND MID TERM ASSESSMENT</b>	
December-February	14	Theorems on Area	295
	17	Trigonometrical Ratios	402
	18	Trigonometrical Ratios of Standard Angles	420
	16	Mensuration	344
		<b>REVISION</b>	
<b>February</b>		<b>ANNUAL EXAMINATION</b>	

**Note:**

- There will be **one** paper of **three** hours duration carrying 80 marks (for Half-Yearly and Annual Examinations) and Internal Assessment of 20 marks.
- **Topics for Unit Project – Simultaneous Linear Equations and Problems on Simultaneous Linear Equations**
  - \* **Unit Project** is prescribed in the **First Term**.
  - \* Unit Project is to be submitted in the first week of July 2025.
  - \* The chapters '**Simultaneous Linear Equations**' and '**Problems on Simultaneous Linear Equations**' prescribed for the Unit Project will be assessed in the **First Mid Term Assessment, Half-Yearly Examination and Annual Examination**.
- All the concepts covered in the prescribed textbook may be tested in the Mid Term Assessments, Half-Yearly Examination and Annual Examination.
- The solution of a question may require the knowledge of more than one branch of the syllabus.
- The **Assertion-Reason Type Questions** for all the chapters given on pages 525 to 544 of the textbook may be done along with the chapters.
- **Refer to the Council Syllabus 2027 for details.**

**PHYSICS**

Name of the Textbook: Fundamentals of Physics  
 Authors: Bansari Shah  
 Publisher: General Printers & Publishers

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
April	1	Measurement (Unit Project)	9
May	2	Motion in One Dimension	50
July	3	Laws of Motion	104
July		<b>FIRST MID TERM ASSESSMENT</b>	
August	4	Pressure in Fluids & Atmospheric Pressure	136
September	5	Upthrust in Fluids, Archimedes Principle & Floatation	164
		<b>REVISION</b>	
September		<b>HALF-YEARLY EXAMINATION</b>	

OCTOBER – MARCH			
October	6	Heat & Energy	187
	7	Reflection of Light	214
November	7	Reflection of Light (continued)	214
December		<b>SECOND MID TERM ASSESSMENT</b>	
December	8	Propagation of Sound Waves	247
January	9	Current Electricity	273
	10	Magnetism	297
February		<b>REVISION</b>	
February		<b>ANNUAL EXAMINATION</b>	

**List of Practicals**

**According to ICSE 2027 Syllabus**

**Note:** A set of 6 to 8 experiments may be conducted as given below. Some of the experiments may be demonstrated (with the help of the students) if these cannot be given to each student as lab experiments.

1	Determine the mean length and diameter of a cylinder using a Vernier Callipers.
2	Determine the mean radius of the given wire using a screw gauge.
3	Find the density of glass by measuring the mass and not the weight using a convenient balance and volume of a rectangular glass block using a metre rule.
4	Determine the mean volume of a metal ball by displacement method (using a measuring cylinder).
5	Draw 'l' vs 'T <sup>2</sup> ' graph for a simple pendulum and hence calculate 'g' using the relation $g = 4\pi^2 \times \text{slope of 'l' vs 'T}^2 \text{' graph}$ .
6	Find the upthrust acting on a metal ball when immersed in water (using a spring balance and a measuring cylinder). Also calculate weight of water displaced by noting the change in the level of water in the measuring cylinder and hence verify Archimedes' Principle.
7	Draw a graph of t <sub>F</sub> (Fahrenheit thermometer reading) vs t <sub>C</sub> (Celsius thermometer reading) by measuring the falling temperature of hot water using both the thermometers simultaneously. Obtain the slope. Compare with the theoretical value. Read the intercept on t <sub>F</sub> -axis when t <sub>C</sub> = 0.
8	Verify the Laws of Reflection using a strip of plane mirror.
9	Verify that the object distance is equal to the image distance in reflection due to a plane mirror.
10	Find the focal length of a concave mirror by (a) direct method, focusing the real image of a distant object on a wall or a screen. (b) One needle method (removing parallax).
11	Arrange an electric circuit (using a cell, key, two torch bulbs and wires) (a) When the bulbs are in series (b) When the bulbs are in parallel. Compare the brightness of the bulbs in the two situations and write your conclusion.

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**Class IX**

12	<p>(a) Plot the earth's magnetic field lines (without any magnet nearby) using a magnetic needle.</p> <p>(b) Plot the magnetic field lines around a bar magnet. Identify the regions where the combined magnetic field of the magnet and the earth is: (i) strongest (ii) very weak but not zero (iii) zero. Why is neutral point so called?</p>
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**Note:**

- The topic of the Unit Project (Measurement) will also be tested in the examination.
- Topic for Unit Project has to be submitted by 14<sup>th</sup> July, 2025.

**The following guidelines are applicable for the examination:**

- **There will be one theory paper of two hours duration carrying 80 marks.**  
The paper will be divided into two sections, **Section I** (40 marks) and **Section II** (40 marks).  
**Section I (compulsory)** will consist of short answer questions on the entire syllabus.  
**Section II** will consist of **six** questions. Candidates will be required to answer any **four** of these **six** questions.
- **Unless otherwise specified only SI units are to be used while teaching and learning, as well as for answering questions.**
- **The practical work will be evaluated internally for 10 marks.**
- **Internal Assessments: 10 marks**

**Note:** Refer to the Council Syllabus 2027 for further details.

**CHEMISTRY**

**Name of the Textbook:** ICSE Let's Master Chemistry

**Author:** T. Prem Kumar, Dr Kanchan Upreti

**Publisher:** Arya Book Depot

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
April – May	1	The Language of Chemistry	9
	2	Chemical Changes and Reactions	33

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July		FIRST MID TERM ASSESSMENT	
July	5	The Periodic Table	98
August	4	Atomic Structure and Chemical Bonding	71
		<b>Practical:</b>	
		<ul style="list-style-type: none"> <li>• Heating the compounds – Copper carbonate, zinc carbonate, washing soda, copper sulphate crystals, ammonium chloride, iodine, ammonium dichromate, zinc nitrate, copper nitrate and lead nitrate.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Flame test – A sodium salt, a potassium salt and a calcium compound.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Simple experiments based on hard water and soft water – Identification of hardness – simple softening – by heating the temporary hard water, using washing soda and advantage of using detergents over soap in hard water.</li> </ul>	
September		<b>REVISION</b>	
<b>September</b>	<b>HALF-YEARLY EXAMINATION</b>		

OCTOBER – MARCH			
Suggested Month	Chapter Number	Name of the Chapter	Page
October	3	Water	49
November	6	Study of the First element-Hydrogen	120
<b>December</b>	<b>SECOND MID TERM ASSESSMENT</b>		
December	7	Study of Gas laws	138
January	8	Atmospheric Pollution	153
		<b>Practical:</b>	
		<ul style="list-style-type: none"> <li>• Identification of gases – Water vapour, sulphur dioxide, hydrogen,</li> </ul>	

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**Class IX**

		hydrogen chloride, hydrogen sulphide, oxygen, carbon dioxide, chlorine, ammonia and nitrogen dioxide.	
		<ul style="list-style-type: none"> <li>Action of dilute sulphuric acid on a sulphide, carbonate, sulphite and a metal.</li> </ul>	
		<ul style="list-style-type: none"> <li>Find out sources of pollution of water bodies in the locality. Suggest preventive steps to control it.</li> </ul>	
February		<b>REVISION</b>	
<b>February</b>	<b>ANNUAL EXAMINATION</b>		

**Note:**

- All chemical reactions should be studied with reference to the reactants, products, conditions, observations and the (balanced) equations.
- Refer to the Council Syllabus 2027 for details.

UNIT PROJECT – Term - II		
Month	Topic	Date of Submission
October	Practical Chemistry (Heating of the Compounds)	31 October 2025

**BIOLOGY**

**Name of the Textbook:** Srijan ICSE Biology Class IX  
**Author:** Veer Bala Rastogi  
**Publisher:** Srijan Publishers Pvt. Ltd.

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
April-May	1	Cell: A Unit of Life	7
	2	Tissues	20
June-July	3	Flower	38
<b>July</b>	<b>FIRST MID TERM ASSESSMENT</b>		
July	4	Pollination and Fertilization	45
	5	Structure and Germination of Seeds	55

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August	9	Nutrition	104
	10	Dentition	115
	11	Digestive System	119
September	8	Economic Importance of Bacteria and Fungi	93
		<b>REVISION</b>	
<b>September</b>	<b>HALF-YEARLY EXAMINATION</b>		

OCTOBER – MARCH			
October	6	Respiration in Plants	63
November	14	Respiratory System	151
<b>December</b>	<b>SECOND MID TERM ASSESSMENT</b>		
November	7	Diversity in Living Organisms	72
December	15	Health and Hygiene	163
	17	Waste Generation and Management	199
	12	Skeleton – Movement and Locomotion	130
January	13	Skin – Structure and Function	142
	16	Aids to Health	184
February		<b>REVISION</b>	
<b>February</b>	<b>ANNUAL EXAMINATION</b>		

**List of Practicals**

1.	The examination of an onion peel under the microscope to study various parts of the cell.
2.	Identification, examination, labelling and study of a cross-pollinated flower – <i>Hibiscus</i> .
3.	Specimens of germinating seeds with plumule and radicle (the bean seed and maize grain) for examination, identification, drawing and labelling the parts.
4.	Examination of a human cheek cell under the microscope to study various parts of the cell.
5.	Identification of sugar, starch, protein and fat.
6.	Examination and identification of specimens belonging to Porifera, Coelenterata, Platyhelminthes, Nematelminthes, Annelida, Arthropoda, Mollusca and Echinodermata. Chordata – Pisces, Amphibia, Reptilia,



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	Aves, Mammalia.
7.	Identification of the structure of the following organs through specimens / models and charts: lung and skin.
8.	Experiments to show the mechanism of breathing.
9.	Visit a few establishments in the locality and find out the type of wastes generated there and methods prevalent for their disposal. Prepare a report and suggest measures to improve environmental conditions.
10.	Visit a water treatment plant, sewage treatment plant or garbage dumping or vermicomposting sites in the locality and study their working.

**Note:**

- Please refer to the Council Syllabus 2027 for details.
- The topic of the Unit Project will also be tested in the examination.

UNIT PROJECT		
Month	Topic	Date of Submission
December	Waste generation and Management	10 January 2026

**ECONOMICS**

**Name of the Textbook:** ICSE Economics – for Class IX

**Author:** J. P. Goel, Kaushal Goel

**Publisher:** Goyal Brothers Prakashan

APRIL – SEPTEMBER		
Suggested Month	Chapter Number	Name of the Chapter
April-July	1	Introduction to Economics
	2	Basic Economic Entities in an Economies
	3	Basic Concepts of Economics
July	4	Types of Economies

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	5	Basic Problems of an Economy
<b>July</b>		<b>FIRST MID TERM ASSESSMENT</b>
August	6	Main Sectors of the Indian Economy
	7	Primary Sector – Agriculture
September	10	Poverty in India
	11	Problem of Unemployment in India
September		<b>REVISION</b>
<b>September</b>		<b>HALF-YEARLY EXAMINATION</b>

OCTOBER – MARCH		
Suggested Month	Chapter Number	Name of the Chapter
October - November	8	Secondary Sector – Industry
	9	Tertiary Sector
November	12	LPG Model (or New Economic Policy)
<b>December</b>		<b>SECOND MID TERM ASSESSMENT</b>

January	13	Emerging Trends in the Indian Economy
		<b>Submission of Unit Project</b>
February		<b>REVISION</b>
<b>February</b>		<b>ANNUAL EXAMINATION</b>

**Note:**

- There will be one theory paper of **two** hours duration carrying 80 marks (for Half-Yearly and Annual Examinations)
- Please refer to the Council Syllabus 2027.
- Unit Project will be prepared in Second Term.  
**Topic for Project: Secondary Sector.**

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Class IX

## COMPUTER APPLICATIONS

Name of the Textbook: Touchpad Computer Applications with BlueJ (9)

Author: Partha Saha

Publisher: Orange Education

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
April-May	1	Principles of Object Oriented Programming	13
	2	Introduction to Java	28
	3	Elementary Concept of Objects and Classes	41
	4	Values and Types	53
	5	Operators in Java	83
July	7	Mathematical Library Methods	140
	8	Conditional Constructs in Java (if, if-else, if-else-if)	156
<b>July</b>		<b>FIRST MID TERM ASSESSMENT</b>	
August	6	Input in Java	119
	8	Conditional Constructs in Java (switch-case)	169
September	9	Iterative Constructs in Java (only for loop) (excluding digit extraction)	193
		<b>REVISION</b>	
<b>September</b>		<b>HALF-YEARLY EXAMINATION</b>	

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OCTOBER – MARCH			
October-November	9	Iterative Constructs in Java (contd.) (while and do-while) including digit extraction	196
<b>December</b>		<b>SECOND MID TERM ASSESSMENT</b>	
December	10	Nested Loop	236
January		Nested Loop (contd.)	
	11	Computing and Ethics	265
February		<b>REVISION</b>	
<b>February</b>		<b>ANNUAL EXAMINATION</b>	

**Note: Refer to the Council's ICSE 2027 Syllabus and Scope.**

**Topic for Unit Project** – Computing and Ethics. Unit project has to be submitted before 12 January 2026.

The structure of the Question Paper for Class IX will be as follows:

There will be one written paper of two hours duration carrying 100 marks and Internal Assessment of 100 marks.

The paper will be divided into **two** Sections **A** and **B**.

**Section A** (Compulsory – 40 marks) will consist of compulsory Multiple Choice Questions and short answer questions covering the entire syllabus.

**Section B** (60 marks) will consist of questions which will require detailed answers. There will be choice of questions in this section.

Entire syllabus prescribed by the Council for Class IX will be covered in the Annual Examination.

There will be two Mid-term Assessments – one before the Half-yearly and another before the Annual examination of 40 marks each.

**Project:** A project file is to be made which will comprise of 10 programs in the Half-Yearly Examination and 10 programs in the Annual Examination. Each assignment in the project should contain source code, Variable Description table and sample input/output. (Handwritten or printouts of these can be put inside the project file).

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**Class IX**

**Distribution of Marks for Half-yearly Examination:**

Examination (Theory paper) – 100 marks (weightage 50 marks)	-	50 marks
Computer Project	-	10 marks
Computer Practical Examination + Viva	-	20 marks
First Mid-term Assessment – 40 marks (weightage 20 marks)	-	<u>20 marks</u>
<b>Total:</b>		<b><u>100 marks</u></b>

**Distribution of Marks for Annual Examination:**

Examination (Theory paper) – 100 marks (weightage 50 marks)	-	50 marks
Computer Project	-	10 marks
Computer Practical Examination + Viva	-	20 marks
UNIT Project – 20 marks (weightage 5 marks)	-	5 marks
Second Mid-term Assessment – 40 marks (weightage 15 marks)	-	<u>15 marks</u>
<b>Total:</b>		<b><u>100 marks</u></b>

**COMMERCIAL STUDIES**

**Name of the Textbook: ICSE Commercial Studies Class IX**

**Author: C.B. GUPTA**

**Publisher: Goyal Brothers Prakashan**

APRIL – SEPTEMBER		
Suggested Month	Chapter Number	Name of the Chapter
April – July	1	Commercial and Non-Commercial Activities
	2	Business Activities
	3	Profit and Non-Profit Organisations
	4	Classification of Commercial Organisations
	23	Trade
	10	Marketing and Sales
	11	Finance and Accounts

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	12	Human Resources
	13	Production
	5	Sole Proprietorship
	6	Partnership
	7	Joint Stock Company
<b>July</b>		<b>FIRST MID TERM ASSESSMENT</b>
		<b>Submission of Unit Project</b>
August	19	Meaning, Objectives and Terminology of Accounting
	20	Basic Accounting Principles and Concepts
	21	Accounting Books and Statements
September		<b>REVISION</b>
<b>September</b>		<b>HALF YEARLY EXAMINATION</b>
October-November	8	Cooperative Society
	9	Public Sector Enterprises
August	24	Social Responsibility of Commercial Organisation towards the Environment
	22	Banking
<b>December</b>		<b>SECOND MID TERM ASSESSMENT</b>
December-January	16	Communication in Commercial Organizations
	18	Different Methods of Communications
	14	Purchasing and Stores
	15	General administration, Legal Compliance and MIS Departments
February		<b>REVISION</b>
<b>February</b>		<b>ANNUAL EXAMINATION</b>

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**Class IX**

**Note:**

- There will be one theory paper of **two** hours duration carrying 80 marks (for Half-Yearly and Annual Examinations).
- **Please refer to the Council Syllabus 2027.**
- Unit Project to be prepared in the First Term.

**Topic for Project: Case Study of Sole Proprietorship / Partnership**

**ART (60)**

**Name of the Drawing Books: Alankar Part 5, 10, 15**

**Artist: Chaman Kiran**

**Publisher: Nageen Prakashan (Meerut)**

**Still Life by Sanjay Shelar**

APRIL – SEPTEMBER		No. of sessions
Suggested Months	Name of the Chapter	
April	<b>Sketching and Basics of Drawings</b>	2
	<b>Still Life (Paper I)</b>	
	A bucket and a plastic mug	5
	A bottle and a glass	5
	<b>Nature Drawing (Paper II)</b>	
	Pansy, Rose	5+5
		(22)
May	<b>Still Life (Paper I)</b>	
	A school bag, a canteen bottle and an umbrella	(6)
<b>July</b>	<b>FIRST MID TERM ASSESSMENT</b>	
July	<b>Nature Drawing (Paper II)</b>	
	Hibiscus, Champa	5+5
	<b>Still Life (Paper I)</b>	
	Tropicana container, juice in a glass & a burger	6

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	A roll of paper, books, dustbin and a mug	6
	A lamp shade, a water bottle and a folded newspaper	5
		(27)
August	<b>Project Work:</b>	
	Clay work	10
	<b>Nature Drawing (Paper II)</b>	
	Bonsai	2
	Still Life – Vegetable Basket	
September	<b>Nature Drawing (Paper II)</b>	10(22)
	Bonsai (Contd)	6
	Marigold	5
		(11)
	<b>REVISION</b>	
<b>September</b>	<b>HALF-YEARLY EXAMINATION</b>	

OCTOBER – MARCH		
October-	<b>Still Life (Paper I)</b>	
	Kitchen utensils: one tray, pressure cooker, bowl filled with uncooked Rajma and a grater	8
	A bottle of orange juice, a guava and a banana (peeled)	4
	<b>Nature Drawing (Paper II)</b>	
	Sadabahar	4
		(16)
November	<b>Project Work:</b>	
	Clay Work	12
	Tie-dye	10
<b>December</b>	<b>SECOND MID TERM ASSESSMENT</b>	(22)

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**Class IX**

December	<b>Still Life (Paper I)</b>	
	Table cloth, a full plate, an apple and a glass of juice, a clock at the background	5
	<b>Nature Drawing (Paper II)</b>	
	Money Plant, Sunflower, Croton, Jasmine,	5+5+5+5
		(25)
January – February	Practice and complete the incomplete work (if any)	
	<b>REVISION</b>	
<b>February</b>	<b>ANNUAL EXAMINATION</b>	

**Note:** Please refer to the Council Syllabus 2027 for details.

**PHYSICAL EDUCATION**

**Name of the Textbook:** Guided Health & Physical Education for Class IX

**Author:** D. Denzil, Deepak Sahai, Digambar V. Palwe

**Publisher:** D. N. Publications

<b>APRIL – SEPTEMBER</b>			
<b>Suggested Month</b>	<b>Chapter Number</b>	<b>Name of the Chapter</b>	<b>Page</b>
April – July	1	The Human Anatomy and Physiology	1
		<b>Any two of the following games:</b> Cricket, Football, Badminton, Basketball and Volleyball	
		Physical Efficiency Test	
<b>July</b>	<b>FIRST MID TERM ASSESSMENT</b>		
August-September	2	Muscular System	17
	3	Respiratory System	30
		<b>Any two of the following games:</b>	

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 – Emilio Cecchi

		Cricket, Football, Badminton, Basketball and Volleyball	
		Physical Efficiency Test	
September		<b>REVISION</b>	
<b>September</b>	<b>HALF-YEARLY EXAMINATION</b>		

<b>OCTOBER – MARCH</b>			
October-November	4	Circulatory System	39
		<b>Any two of the following games:</b> Cricket, Football, Badminton, Basketball and Volleyball	
<b>December</b>	<b>SECOND MID TERM ASSESSMENT</b>		
December-January	5	Games and Sports	50
		<b>Any two of the following games:</b> Cricket, Football, Badminton, Basketball and Volleyball	
		Physical Efficiency Test	
February		<b>REVISION</b>	
<b>February</b>	<b>ANNUAL EXAMINATION</b>		

**Note:**

- There will be one written paper of two hours duration carrying 80 marks each (for Half-Yearly and Annual Examinations) and two Mid Term Assessments of one and a half hours duration carrying 40 marks each.
- **Please refer to the Council Syllabus 2027 for details.**

<b>UNIT PROJECT</b>		
<b>Month</b>	<b>Topic</b>	<b>Date of Submission</b>
October-December	Any one game	12 January, 2026

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**Class IX**

**Distribution of Marks for Half-Yearly Examination:**

Theory	-	80 marks
First Mid-term Assessment – (40 marks) weightage	-	<u>20 marks</u>
<b>Total:</b>		<b><u>100 marks</u></b>

**Distribution of Marks for Annual Examination:**

Theory	-	80 marks
Unit Project: (20 marks) – weightage 5 marks	-	5 marks
Second Mid-term Assessment – (40 marks) weightage 15 marks	-	<u>15 marks</u>
<b>Total:</b>		<b><u>100 marks</u></b>

**ENVIRONMENTAL SCIENCE**

**Name of the Textbook: Environmental Science – IX**

**Author: Amita Ganguly**

**Publisher: Marina Publication**

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page No.
April	1	Understanding our Environment	5
May	2	Living Things in Ecosystems	18
July	3	How Ecosystems Work	28
	9	People	120
<b>July</b>		<b>FIRST MID TERM ASSESSMENT</b>	
August	5	Water	66
	6	Air	86
September		<b>REVISION</b>	

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September	HALF-YEARLY EXAMINATION		
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OCTOBER – MARCH			
October	4	Kinds of Ecosystems	38
	8	Soil and Land	109
November	10	Urbanisation	128
	7	Atmosphere and Climate	100
<b>December</b>		<b>SECOND MID TERM ASSESSMENT</b>	
January	11	Agriculture	137
February		<b>REVISION</b>	
<b>February</b>	<b>ANNUAL EXAMINATION</b>		

**Note:**

- There will be one paper of two hours duration carrying 80 marks and Internal Assessment of 20 marks.
- The paper will have **two** Sections.
- Section A (Compulsory) will contain short answer questions covering the entire syllabus.
- Section B will contain **six** questions. Candidates will be required to answer any **four** questions from this section.

**Refer to the Council Syllabus 2027 for details.**

## ROBOTICS & ARTIFICIAL INTELLIGENCE

Name of the Textbook: Touchpad Robotics & Artificial Intelligence (9)

Author: Dr Saurabh Maheshwari, Shalini Harisukh, Anjana Virmani

Publisher: Orange Education

APRIL – SEPTEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
April-May		<b>ROBOTICS</b>	
	Part 1 Chapter 1	<b>Introduction to Robotics</b> Understanding Robots [Robot, Benefits of Robot]	17
		Evolution of Robots and Laws of Robotics	-
		Classification of Robots [Types of Robots]	-
		Real World Robots and their applications [Application of Robots]	-
	Part 1 Chapter 2	<b>Robot as a System</b> Building Blocks of Robots [Block Diagram of Robot, Micro-Controller, Micro-Processor, Power Supply, Sensor, Arduino Programming, LED Blinking, LED Pattern, LFR, Edge AVOIDER Robot, Object AVOIDER Robot, Ultrasonic Sensor]	50
July		Identification of Robots	-
	Part 1 Chapter 3	<b>Concepts in Robotics</b> [Link, Joints, Motion, Degree of Freedom]	72
<b>FIRST MID TERM ASSESSMENT</b>			
August		<b>PYTHON</b>	
	Part 2 Chapter 3	<b>Introduction to Data and Programming with Python</b>	131
		Familiarization with Python (Introduction to Python, Application & Advantages)	

		Introduction to Data types and variables [Variables, Data types (int, float, boolean, tuple, list, strings)]	
		Introduction to Operators and String Data Type in Python [Types of operators (arithmetic, logical, assignment, comparison, identity, membership)]	
September		Conditional statements and Control statements (if, if else, Nested if else, switch, for, while, break, continue)	
		<b>REVISION</b>	
<b>September</b>		<b>HALF-YEARLY EXAMINATION</b>	

OCTOBER – MARCH			
Suggested Month	Chapter Number	Name of the Chapter	Page
October		<b>ARTIFICIAL INTELLIGENCE</b>	
	Part 2 Chapter 1	<b>Introduction to Artificial Intelligence</b> AI (Meaning and brief history) [AI, History of AI, Turing Test]	93
		Applications and benefits of AI	-
		Ethical Considerations in AI	
November	Part 2 Chapter 2	<b>Role of Data and Information, Evolution of Computing</b> [Data, Information, Types of data]	121
		Evolution of computing	
		[Logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR): Definition, symbolic representation, Truth table, expression, Circuit diagrams for the expressions, Number systems (Binary to others & others to Binary)]	

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**Class IX**

		<b>PYTHON</b>	
		Functions (Function, Types of Functions)	
		(Programming / Practice)	
December		<b>SECOND MID TERM ASSESSMENT</b>	
December		<b>MACHINE LEARNING</b>	
	Part 2 Chapter 4	<b>AI Concepts and AI Project Framework</b> (Broad & Narrow AI, Strong & Weak AI)	189
		AI Domains (Computer Vision (CV)) (CV, Application, Benefits)	
		AI Domains (Natural Language Processing (NLP)) (NLP, Application, Benefits)	
January		AI Domains (Neural Networks (NN)) [NN, Application, Benefits]	
		Components and Stages	
		(AI Framework, AI PDLC)	
February		<b>REVISION</b>	
<b>February</b>	<b>ANNUAL EXAMINATION</b>		

**Note: Refer to the Council's ICSE 2027 Syllabus and Scope.**

The structure of the Question Paper for Class IX will be as follows:

There will be one written paper of two hours duration carrying 100 marks and Internal Assessment of 100 marks.

The paper will be divided into **two** Sections **A** and **B**.

**Section A** (Compulsory – 40 marks) will consist of compulsory MCQs and short answer questions covering the entire syllabus.

**Section B** (60 marks) will consist of questions which will require detailed answers. There will be choice of questions in this section.

Entire syllabus prescribed by the Council for Class IX will be covered in the Annual Examination.

**Project:** A project file is to be made which will comprise of at least 15 assignments in the session. Details of Assignments to be done during the year:

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Broad Area	Number of Assignments
Robotics	3
Artificial Intelligence	2
Python (programming)	10
<b>Total</b>	<b>15</b>

**Distribution of Marks for Half-yearly Examination:**

Examination (Theory paper) – 100 marks (weightage 50 marks)	-	50 marks
Computer Project	-	10 marks
Computer Practical Examination + Viva	-	20 marks
First Mid-term Assessment – 40 marks (weightage 20 marks)	-	<u>20 marks</u>

**Total: 100 marks**

**Distribution of Marks for Annual Examination:**

Examination (Theory paper) – 100 marks (weightage 50 marks)	-	50 marks
Computer Project	-	10 marks
Computer Practical Examination + Viva	-	20 marks
UNIT Project – 20 marks (weightage 5 marks)	-	5 marks
Second Mid-term Assessment – 40 marks (weightage 15 marks)	-	<u>15 marks</u>

**Total: 100 marks**