

# City Montessori School, Lucknow

## Syllabus 2026-2027

### Class X

S. No.	Subject	Pages
1.	Moral Education	6
2.	English Language	7
3.	Literature in English	14
4.	Hindi	15
5.	History and Civics	20
6.	Geography	21
7.	Mathematics	23
8.	Physics	24
9.	Chemistry	27
10.	Biology	29
11.	Economics	31
12.	Commercial Studies	32
13.	Computer Applications	33
14.	Physical Education	34
15.	Art	36
16.	Robotics and Artificial Intelligence	38
17.	Environmental Science	40
18.	Economic Applications	41
19.	Advanced Mathematics	42

#### NOTE:

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

#### 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 students to express their ideas and feelings in their own words and to understand the use of current English.
3. To provide students 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.

Class X

### **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 phenomenon.
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 and 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, proofs, 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.

### **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 and in drawing diagrams, graphs etc.
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 biological terms, facts, concepts and principles.
2. To develop an understanding of the inter-relationships of animate objects and their environmental adaptations.
3. To develop an understanding of the interdependence of plants and animals; to enable pupils to acquire a more clear comprehension of the significance of life and its importance in human welfare.
4. To understand the capacities and limitations of all the biological activities of man so as to be able to use it for a better quality of life.
5. To acquire the ability to observe specimens minutely, experiment, hypothesise, infer, handle equipment 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.
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.

**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 the entrepreneur and the professional manager.
4. To help 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.

**COMPUTER APPLICATIONS:**

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

**ENVIRONMENTAL EDUCATION:**

1. To develop an understanding of eco-systems and their inter-relations.
2. To develop an awareness about the utilization and overexploitation of natural resources.
3. To develop skills for effectively tackling problems related to the local environment.
4. To appreciate and respect legal provisions for protection of animals and plants.
5. To imbibe the essence of environmental values and ethics in order to live in harmony with nature.

**MORAL EDUCATION FOR CLASS 10**

**Name of the Textbook:** The Pathfinders Book I

**Publisher:** Royale Publishers

APRIL – SEPTEMBER (First Term)		
Suggested Month	Chapter Number	Page
April - May	Revision of the first five chapters	1-27
July	6 – Rights, Responsibilities and Limits of Freedom	28-34
August	7 – The Mysterious Force that Guides Us	35-41
September	Revision and Discussion	

OCTOBER – MARCH (Second Term)		
Suggested Month	Chapter Number	Page
October	8 – The Duality in Our Nature	42-48
November	9 – Seizing the Moment	49-54
December	Revision and Discussion	

Note: (W) – Written, (O) – Oral (For assembly)	
The Pathfinders Book 1 – Written Work	
For Chapters 1 – 6	
ONLY	<ul style="list-style-type: none"> <li>• Competence Building</li> <li>• Group Activity</li> </ul>
Group Activity	The students need to write their views on a sheet of paper and attach in the book for every chapter.
	Theme analysis – For class discussion.

## ENGLISH LANGUAGE

**Name of the Textbook:** Total English for ICSE Class 10  
**Authors:** Xavier Pinto, P Pinto & Dr Avanti Nisha  
**Publisher:** Morning Star

Suggested Month	Name of the Topic
April – May	A complete revision of Functional Grammar
	Transformation of Sentences 1 and 2
	Prepositions
	Tenses and Their Uses (1), (2) and Sequence of Tenses
	Synthesis
	Subject Verb Agreement
	Notice and Email
	Test Papers 2, 3 and 4
	<b>Picture Composition</b>
	Formal Letter
	Informal Letter
	Comprehension and Precis Writing
	<b>Argumentative Composition</b>
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>
July-September	Test Papers 5 and 6
	<b>Story Writing</b>
	Formal Letter
	Informal Letter
	Comprehension and Precis Writing
	Notice and Email
	A complete revision of Functional Grammar
	<b>Descriptive Composition</b>
	<b>Narrative Composition</b>
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>
October-November	Test Paper 7

	A complete revision of Functional Grammar
	Oral + Aural Project
	<b>REVISION</b>
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>
	<b>REVISION</b>
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>

**Note:** Please note the following suggestions for a formal letter addressed to 'The Editor'.

- ONLY** Sir / Madam to be written in salutation. Use of 'Dear' should be omitted.
- Subscription to be written as 'Yours truly'.

There will be **two** papers:

**Paper I: English Language**

**Paper II: Literature in English**

Each of these papers will be of **two** hours duration.

Paper 1: English Language (80 marks)

Internal Assessment (20 marks)

**(Note: Please refer to the Council Syllabus 2027)**

**Paper I: English Language**

**Five** questions will be set; all of which will be compulsory.

**Question 1:** Candidates will be required to write a composition (300–350 words) from a choice of subjects which will test their ability to describe, narrate, report, explain, persuade or argue, present ideas coherently. - 20 marks

**Question 2:** Candidates will be required to write a letter from a choice of two subjects requiring either a formal or an informal mode of treatment. - 10 marks

Class X

**Question 3:** Candidates will be given a specific situation and will be required to:

- (a) Write a notice based on given directions.
- (b) Write an email on the same content as the notice. - 10 marks

**Question 4:** An unseen passage of prose of about 500 words will be given. Uncommon items of vocabulary or structure will be avoided. One question will be set to test vocabulary. Candidates will be required to show that they understand the words / phrases in the context in which they have been used. A number of questions requiring short answers will also be asked on the passage. These questions will test the candidates' ability to understand the explicit content and organization of the passage and to infer information, intentions and attitudes from it.

The last question will consist of a summary of 50 words that will test the candidates' ability to distinguish main ideas from supporting details, to extract salient points to re-express them in the form of a summary of 50 words. - 20 marks

**Question 5:** There will be a number of short answer questions to test the candidates' knowledge of functional grammar, structure and usage of the language. - 20 marks

### INTERNAL ASSESSMENT

#### Paper I – ENGLISH LANGUAGE

1. 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.

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

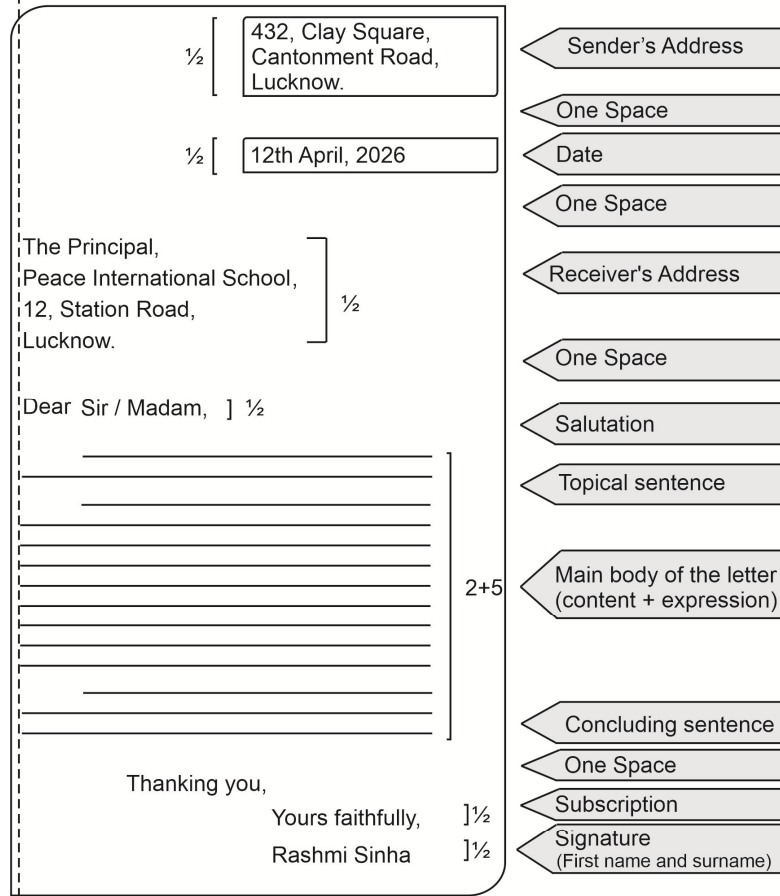
Speaking Skills : 10 marks

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.

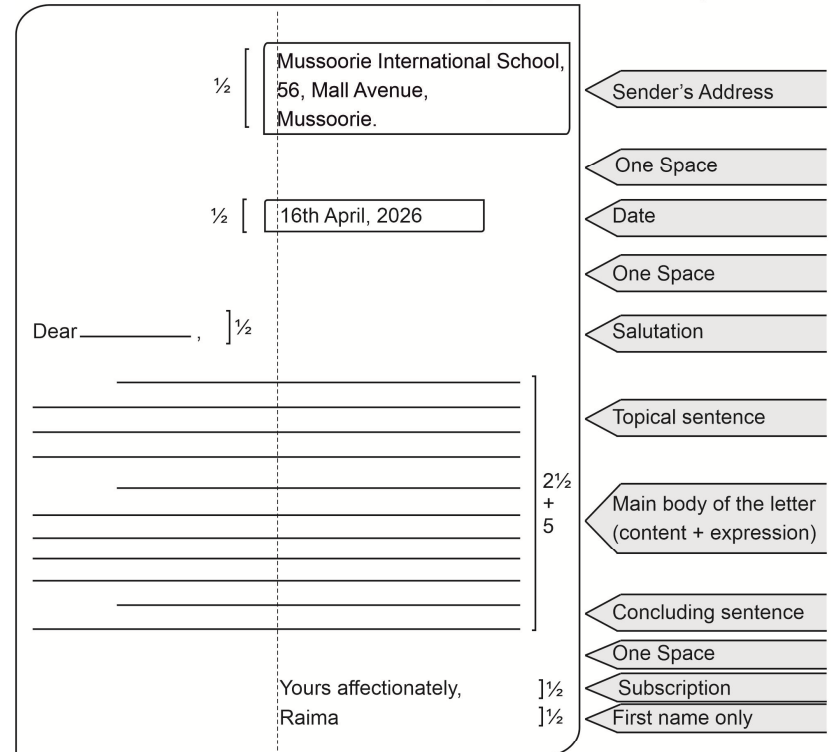
Class X

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



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

**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

Class X

### SPECIMEN FOR NOTICE

War of Words [1]  
Inter-school Debate Competition [1]  
on 8<sup>th</sup> December 2026 [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 2026 [1]

### SPECIMEN FOR EMAIL

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 2026 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

### 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 (P) Ltd.  
2. Evergreen Publications (India) Ltd.

Suggested Month	Name of the Chapter
April-May	<b>Julius Caesar</b>
	Act III Scenes I, II, III
	<b>Treasure Chest - A Collection of ICSE Poems and Short Stories</b>
	Haunted Houses (Poem)
	The Glove and the Lions (Poem)
	With the Photographer (Short Story)
	The Elevator (Short Story)
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>
July – September	<b>Julius Caesar</b>
	Act IV Scenes I, II & III
	<b>Treasure Chest - A Collection of ICSE Poems and Short Stories</b>
	When Great Trees Fall (Poem)
	A Considerable Speck (Poem)
	The Girl Who Can (Short Story)
	The Pedestrian (Short Story)
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>
October-November	<b>Julius Caesar</b>
	Act V Scenes I, II, III, IV & V
	The Power of Music (Poem)
	The Last Lesson (Short Story)
<b>December</b>	<b>REVISION &amp; FIRST PRE BOARD EXAMINATION</b>
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>

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

Candidates will be required to answer **questions** from at least three of the prescribed textbooks, which include **Drama, Prose and Poetry**.  
(Please refer to the Council Syllabus 2027)

**Paper II:** Literature in English (80 marks)  
Internal Assessment (20 marks)

**Internal Assessment**

**Paper II – Literature in English**

Schools will set, assess and record written assignments by the candidates as given below:

Class X: Two or three assignments of reasonable length (not exceeding 1500 words in total).

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

- Character / thematic analysis
- Socio-economic, cultural, historical relevance / background
- Summary / paraphrase
- Appreciation of literary qualities
- Identifying with a character. Putting oneself in the place of a character in given circumstances and explaining one's actions.
- Imagine alternative outcomes or endings in a literary piece and the effect on all concerned.

## हिंदी

**Name of Textbook:**

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

**Publication**

ऐवरग्रीन पब्लिकेशन्स  
ऐवरग्रीन पब्लिकेशन्स

Suggested Month	Chapter Number	Name of the Chapter
April-May		(गद्य भाग)
	9	भेड़ें और भेड़िए
		(बात अठन्नी की, महायज्ञ का पुरस्कार, काकी – पुनरावृत्ति)
		(पद्य भाग)
	7	विनय के पद
		(साखी, कुंडलियाँ, स्वर्ग बना सकते हैं – पुनरावृत्ति)

		निबन्ध – सभी प्रकार के निबंधों का अभ्यास (मौखिक)
		निबन्ध – वर्णनात्मक निबंध (लिखित)
		पत्र – औपचारिक एवं अनौपचारिक
		अपठित गद्यांश का अभ्यास
		व्यावहारिक व्याकरण, परियोजना कार्य
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>	
July-August		(गद्य भाग)
	7, 8	संदेह, भीड़ में खोया आदमी (नेताजी का चश्मा, अपना अपना भाग्य – पुनरावृत्ति)
		(पद्य भाग)
	8, 9	चलना हमारा काम है, भिक्षुक (वह जन्म भूमि मेरी, सूर के पद – पुनरावृत्ति)
		निबंध – विचारात्मक (पक्ष – विपक्ष)
September		व्यावहारिक व्याकरण, पुनरावृत्ति
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>	
October-November	10	(गद्य भाग) – दो कलाकार
		(बड़े घर की बेटी – पुनरावृत्ति)
		निबंध – सूक्तिपरक – कहानी
		(पद्य भाग)
	10	मातृ मंदिर की ओर
		मेघ आए (पुनरावृत्ति)
		मॉडल टेस्ट पेपर का अभ्यास
		व्यावहारिक व्याकरण
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>	
		पढ़ाए गए पाठों की पुनरावृत्ति
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>	

**Note:**

- In all examinations, there will be one paper of three hours duration carrying 80 marks and **Internal Assessment of 20 marks**. (Project work)
- The paper will be divided into two sections, Section A and Section B.

**SECTION A: Language, 40 marks.**

Composition	: (15 Marks)
Letter	: (7 Marks)
Comprehension	: (10 Marks)
Grammar	: (8 Marks)

**SECTION B: Prescribed Texts: 40 marks.** Candidates will be required to answer **FOUR** questions.

- Refer to the Council syllabus 2027 for further details.**

**Suggestions / Teaching Aids:**

- अपठित गद्यांशों के प्रपत्र तैयार कर उनको विद्यार्थियों में वितरित करके विचार-विमर्श किया जा सकता है।
- कक्षा में वार्तालाप के दौरान मुहावरों का प्रयोग करने से उनके अर्थ तथा प्रयोग अधिक स्पष्ट हो सकते हैं।

**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	आशा है/अनुरोध है _____। _____।
एक लाइन छोड़ें	
अन्तिम अनुच्छेद	कष्ट के लिए क्षमा कीजिएगा।
एक लाइन छोड़ें	
अन्तिम वाक्य	धन्यवाद।
एक लाइन छोड़ें	
आभार	भवदीय/भवदीया
एक लाइन छोड़ें	नाम _____
समापन	

नोट - विद्यालयी पत्रों में प्रेषक का पता अनिवार्य नहीं है तथा समापन निम्न प्रकार से किया जा सकता है।  
आपका आज्ञाकारी / आपकी आज्ञाकारिणी,  
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,
अभिवादन	संजय 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 _____

## HISTORY AND CIVICS

Name of the Textbook: Total History and Civics 10  
(Revised Edition)

Author: Dolly Ellen Sequeira

Publisher: Morning Star

Suggested Month	Chapter Number	Topic
		<b>History</b>
April - May	1	The First War of Independence, 1857
	2	Growth of Nationalism
	3	First Phase of the Indian National Movement
	4	Second Phase of the Indian National Movement
	5	The Muslim League
	10	The First World War
		<b>Civics</b>
	I	The Union Legislature
<b>June</b>		<b>FIRST COMPARATIVE EXAMINATION</b>
		<b>History</b>
July-September	6	Mahatma Gandhi and the National Movement
	7	Quit India Movement
	8	Forward Bloc and the INA
	9	Independence and Partition of India
		<b>Civics</b>
	II	The Union Executive
		<b>History</b>
	11	Rise of Dictatorship
	12	The Second World War
	13	United Nations
	14	Major Agencies of the United Nations
<b>September</b>		<b>SECOND COMPARATIVE EXAMINATION</b>
		<b>History</b>
October-December	15	Non Aligned Movement
		<b>Civics</b>
	III	The Judiciary
		REVISION
<b>December</b>		<b>FIRST PRE BOARD EXAMINATION</b>
<b>January</b>		<b>SECOND PRE BOARD EXAMINATION</b>

Class X

**Note:**

- A single notebook / register has to be maintained for History as well as Civics.
- It is advisable to follow the pattern of the question paper while doing written work.
- There will be **one** paper of **two** hours duration carrying 80 marks and Internal Assessment of 20 marks.

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

## GEOGRAPHY

**Name of the Textbook:** Total Geography – 10 (ICSE)  
**Author:** Jasmine Rachel, Dolly E. Sequeira & P.S. Latika  
**Publisher:** Morning Star

Suggested Month	Topic Number	Topic	Page
April-May	1	Interpretation of Topographical Maps	5
	7	Soil Resources	90
	8	Natural Vegetation	101
	19	Transport	218
		<b>Map Work [India] As per the Council syllabus</b>	
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July-September	6	Climate	70
	9	Water Resources	113
	10	Mineral Resources	126
	11	Conventional Sources of Energy	134
	12	Non-Conventional Sources of Energy	145
	20	Waste Management – I: Impact of Waste Accumulation	234
	21	Waste Management – II: Safe Disposal of Waste	245
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		
October-November	14	Agriculture I	152
	15	Agriculture II: Food Crops	163
	16	Agriculture III: Cash Crops (1)	176
	17	Agriculture IV: Cash Crops (2)	184
	18	Manufacturing Industries (Agro-Based)	195

	19	Mineral Based Industry	209
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
	<b>REVISION</b>		
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>		

There will be **one** paper of **two** hours duration carrying 80 marks and Internal Assessment of 20 marks.

**Question paper pattern (for First Comparative Examination only)**

**Part I**

Toposheet – 10 marks

MCQ – 10 marks

Map work – 10 marks

**Part II** – 50 marks – 5 out of 9 (Theory questions)

(Two questions from each topic and three mixed)

**MAP WORK-**

**Mountains, Peaks and Plateaus:** (To be marked) Himalayas, Karakoram, Aravalli, Vindhyas, Satpura, Western and Eastern Ghats, Nilgiris, Khasi, Mount Godwin Austin (K2), Mount Kanchenjunga, Deccan Plateau, Chota Nagpur Plateau.

**Plains:** (To be marked) Gangetic Plains and Coastal Plains – (Konkan, Malabar, Coromandel, Northern Circars.)

**Desert:** (To be marked) Thar (The Great Indian Desert).

**Water Bodies:** (To be marked) Gulf of Kutch, Gulf of Khambhat, Gulf of Mannar, Palk Strait, Andaman Sea, Wular Lake.

**Passes:** (To be marked) Karakoram

**Direction of Winds:** (To be marked) South West Monsoons (Arabian Sea and Bay of Bengal Branches), North East Monsoon and Western Disturbances.

**Soil Distribution:** (To be marked) Alluvial, Black and Red Soil.

**Population:** (To be marked) Distribution of Population (Dense and sparse).

**Rivers:** (To be identified) Indus, Ravi, Beas, Chenab, Jhelum, Satluj, Ganga, Yamuna, Ghaghra, Gomti, Gandak, Kosi, Chambal, Betwa, Brahmaputra, Narmada, Tapi, Mahanadi, Godavari, Krishna, Cauveri

**Latitude and Longitude:** (To be identified) Tropic of Cancer, Standard Meridian (82° 30' E).

**Distribution of Minerals:** (To be identified) Oil – Mumbai High (Offshore Oil Field) and Digboi, Iron – Singhbhum, Coal – Jharia.

**Cities:** (To be identified) Delhi, Mumbai, Kolkata, Chennai, Hyderabad, Bengaluru, Kochi, Prayagraj.

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

## MATHEMATICS

**Name of the Textbook:** Understanding ICSE Mathematics  
Class X (Twenty Seventh Edition: 2026)

**Author:** M. L. Aggarwal

**Publisher:** Avichal Publishing Company

Suggested Month	Chapter Number	Name of the Chapter	Page
April - May	1	Goods and Services Tax (GST)	1
	2	Banking	22
	4	Linear Inequations	49
	5	Quadratic Equations in One Variable	62
	6	Ratio and Proportion	103
	7	Factorisation	132
	8	Matrices	147
	22	Probability	558
	21	Measures of Central Tendency	514
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July-September	3	Shares and Dividends	31
	9	Arithmetic and Geometric Progressions	172
	11	Section Formula	224
	12	Equation of a Straight Line	241
	10	Reflection	208
	13	Similarity	268
	15	Circles	331
	16	Constructions	406
	14	Locus	318
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		

October-November	18	Trigonometric Identities	469
	19	Trigonometrical Tables	493
	20	Heights and Distances	496
	17	Mensuration	415
December		<b>REVISION</b>	
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>		

**Note:**

- There will be **one** paper of **three** hours duration carrying 80 marks and Internal Assessment of 20 marks.
- Certain questions may require the use of Mathematical tables.
- The chapter-wise questions given in the Appendix (A-1 to A-28) at the end 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

**Author:** Bansari Shah

**Publisher:** General Printers & Publishers

Suggested Month	Chapter Number	Name of the Chapter	Page
April - May	1	Turning Forces & Centre of Gravity	9
	2	Work, Energy & Power	38
	4	Refraction of Light	104
	5	Refraction through Lenses	141
	6	Spectrum	167
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July	3	Simple Machines	73
July	7	Sound	189

Class X

August	8	Current Electricity	234
August	9	Effect of Electric Current & Household Circuits	268
September	10	Electro-magnetism (Project)	296
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		
October	11	Calorimetry & Latent Heat	335
November	12	Radioactivity	371
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
<b>December</b>	<b>REVISION</b>		
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>		

**PRACTICAL WORK**

(According to ICSE 2027 syllabus)

**Note:** Teachers may design their own set of experiments preferably related to theory syllabus. A comprehensive list is suggested below.

Month	Expt. No.	Experiment
April	1	Lever – Determine the mass of a metre rule using a spring balance or by balancing it on a knife edge at some point away from the middle and a 50g weight on the other side. Next pivot (F) the metre rule at the 40 cm, 50 cm and 60 cm mark, each time suspending a load L on the left end and effort E near the right end. Adjust E and/or its position so that the rule is balanced. Tabulate the position of L, F and E and the magnitudes of L and E and the distances of load arm and effort arm. Calculate $MA = L/E$ and $VR = \text{effort arm/load arm}$ . It will be found that $MA < VR$ in one case, $MA = VR$ in another and $MA > VR$ in the third case. Try to explain why this is so. Also try to calculate the real load and real effort in these case.
May	2	Determine the V.R. and M.A. of a given pulley system.
July	3	Trace the course of different rays of light refracting through a rectangular glass block at different angles of incidence, measure the angles of incidence, refraction and emergence. Also measure the lateral displacement.
	4	Determine the focal length of a convex lens by: (a) distant object method (b) using a needle and a plane mirror
August	5	Determine the focal length of a convex lens by using two pins and the formula, $f = \frac{uv}{u+v}$

	6	Trace the course of rays passing through a prism and measure angles $i_1, i_2$ and $\delta$ . Repeat for four different angles of incidence (say $i_1 = 40^\circ, 50^\circ, 60^\circ$ and $70^\circ$ ). Verify $i_1 + i_2 = A + \delta$ and $A = r_1 + r_2$ .
September	7	For a ray of light incident normally ( $i = 0^\circ$ ) on one face of a prism, trace course of the ray. Measure the angle of deviation $\delta$ . Do this for prisms with $A = 60^\circ, 45^\circ$ and $90^\circ$ .
October	8	Calculate the specific heat of the material of the given calorimeter, from the temperature readings and masses of cold water, warm water and its mixture taken in the calorimeter.
	9	Determination of specific heat of a metal by the method of mixtures.
November	10	Determination of specific latent heat of ice.
	11	Using a simple electric circuit, verify Ohm's law. Draw a graph, and obtain the slope.
December	12	Set up a model of household wiring including ring main circuit. Study the function of switches and fuses.

The following guidelines are applicable for the Council's examination 2027.

- **There will be one paper of two hours duration carrying 80 marks and Internal Assessment of practical work carrying 20 marks.**

The paper will be divided into **two** sections, Section I (40 marks) and Section II (40 marks).

**Section I (compulsory)** will contain short answer questions on the entire syllabus.

**Section II** will contain **six** questions. Candidates will be required to answer any **four** of these **six** questions.

- **Evaluation of practical work / project work:**

The practical work / project work are to be evaluated by the subject teacher and by an External Examiner. The Internal Examiner and the External Examiner will assess the practical work / project work independently.

**Award of Marks: (20 marks)**

Subject Teacher (Internal Examiner) : 10 marks

External Examiner : 10 marks

The total marks obtained out of 20 are to be sent to the Council by the head of the school.

- **Unless otherwise specified, only S.I. units are to be used while teaching and learning as well as for answering questions.**

**Note:** For further details please refer to the Council's Syllabus for ICSE examination 2027.

## CHEMISTRY

Name of the Textbook: ICSE Let's Master Chemistry

Author: T. Premkumar, Dr Kanchan Upreti

Publisher: Arya Book Depot

Suggested Month	Chapter Number	Name of the Chapter	Page
April	1	Periodic Classification and Variations of Periodic Properties: Physical and Chemical	11
	2	Chemical Bonding	34
	5	Mole concept & Stoichiometry (only the subtopic – Gay-Lussac's Law on page 83, 84, Avagadro's Law on page 85, 86, Percentage Composition on page 92 and Empirical Formula & Molecular Formula on page 93 and 94)	82
	8	Study of Compounds – Hydrogen Chloride	142
May	9	Study of Compounds – Ammonia	154
	4	Analytical Chemistry	73
		<b>Practical:</b> (i) Add concentrated HCl to each of the given substances, warm, make observations, identify any product and make deductions: (a) CuO (b) MnO <sub>2</sub> (ii) <b>Identification of cations:</b> Calcium (Ca <sup>2+</sup> ), Copper (Cu <sup>2+</sup> ), Ferric (Fe <sup>3+</sup> ), Ferrous (Fe <sup>2+</sup> ), Lead (Pb <sup>2+</sup> ), Zinc (Zn <sup>2+</sup> ), Ammonium ion (NH <sub>4</sub> <sup>+</sup> )	
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July	5	Mole concept & Stoichiometry (only the subtopic- Mole concept on page 88-91, calculation based on chemical equation on page 95 and 96)	82
August	10	Study of Compounds – Nitric Acid	167
	11	Study of Compounds – Sulphuric Acid	177
September	12	Organic Chemistry	187
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		

October	3	Acids, Bases and Salts	51
November	6	Electrolysis	102
December	7	Metallurgy	121
		<b>Practical:</b> (i) <b>Identification of gases:</b> * Neutral Gases – Oxygen (O <sub>2</sub> ), Hydrogen (H <sub>2</sub> ), Water vapour (H <sub>2</sub> O) * Acidic Gases – Nitrogen dioxide (NO <sub>2</sub> ), Sulphur dioxide (SO <sub>2</sub> ), Hydrogen sulphide (H <sub>2</sub> S), Hydrogen chloride (HCl), Chlorine (Cl <sub>2</sub> ), Carbon dioxide (CO <sub>2</sub> ) * Basic Gas – Ammonia (NH <sub>3</sub> ) (ii) Supply a solution of a dilute acid and alkali. Determine which is acidic and which is basic, giving two tests for each. (iii) <b>Action of heat on:</b> Copper carbonate, Zinc carbonate, Zinc nitrate, Copper nitrate and Lead nitrate. (iv) <b>Identification of anions:</b> Nitrate (NO <sub>3</sub> <sup>-</sup> ), Sulphide (S <sup>2-</sup> ), Sulphite (SO <sub>3</sub> <sup>2-</sup> ), Sulphate (SO <sub>4</sub> <sup>2-</sup> ), Chloride (Cl <sup>-</sup> ), Carbonate (CO <sub>3</sub> <sup>2-</sup> )	
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>		

### NOTE:

There will be one paper of **two hours** duration of 80 marks and Internal Assessment of practical work carrying 20 marks.

The paper will be divided into **two** sections, Section I (40 marks) and Section II (40 marks).

**Section I** (compulsory) will contain short answer questions on the entire syllabus.

**Section II** will contain six questions. Candidates will be required to answer any **four** of these **six** questions.

**All chemical processes / reactions should be studied with reference to the reactants, products, conditions, observation, the (balanced) equations and diagrams.**

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

## BIOLOGY

Name of the Textbook: **SRIJAN ICSE BIOLOGY Class 10**

Author: **Veer Bala Rastogi**

Publisher: **SRIJAN Publishers Pvt. Ltd.**

Suggested Month	Chapter Number	Name of the Chapter	Page
April-May	1	Cell Cycle and Cell Division	11
	2	Structure of Chromosomes	24
	3	Genetics	31
	4	Absorption by Roots and rise of Water upto Xylem	47
	5	Transpiration	65
	6	Photosynthesis	79
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July	7	Chemical Coordination in Plants	95
	8	Circulatory System	106
	9	Excretory System	129
August-September	10	Nervous System	141
	11	Sense Organs	159
	16	Pollution – Sources and Effects	232
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		
October-November	12	Endocrine System	175
	13	Reproductive System	189
	15	Human Evolution	221
	14	Population and Related Problems in India	209
December	REVISION		
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>		

## PRACTICAL WORK

Month	Practical
April-May	Observation of permanent slides of mitosis.
	Experiments demonstrating diffusion, osmosis and absorption.
	Experiments to show transpiration, unequal transpiration and rate of transpiration.
July	Experiments to show the necessity of light, carbon dioxide and chlorophyll essential for photosynthesis; release of O <sub>2</sub> during photosynthesis. Students to write down their observations and draw and label the apparatus.
	The identification of different types of blood cells under a microscope.
	Identification of the structure of the urinary system, heart and kidney (internal structure) and brain (external view) through models and charts.
August	The structure of the Ear and an Eye (Students will be required to identify each structure in the models of these organs).
September	Identification and location of selected endocrine glands (Adrenal, Pancreas, Thyroid and Pituitary glands) with the help of a model or chart.

### Note:

There will be one paper of **two hours** duration of 80 marks and Internal Assessment of practical work carrying 20 marks.

The paper will be divided into **two** sections, **Section I** (40 marks) and **Section II** (40 marks).

**Section I (compulsory)** will contain short answer questions on the entire syllabus.

**Section II** will contain **six** questions. Candidates will be required to answer any **four** of these **six** questions.

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

## ECONOMICS

**Name of the Textbook:** ICSE Economics – Class X  
**Author:** J P Goel and Kaushal Goel  
**Publisher:** Goyal Brothers Prakashan

Suggested Month	Chapter Number	Name of the Chapter
April-May	1	Factors of Production
	9	Introduction to Public Finance
	10	Public Revenue
	11	Public Expenditure
	12	Public Debt
	5	Meaning and Types of Market
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>	
July-September	2	Elementary Theory of Demand
	3	Elasticity of Demand
	4	Theory of Supply
	6	Meaning and Functions of Money
	7	Commercial Banks
	8	Central Bank
	13	Inflation
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>	
October-November	14	Consumer Awareness
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>	
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>	

There will be **one** theory paper of **two** hours duration carrying 80 marks and Project/Internal Assessment of 20 marks.

**Internal Assessment:** **One** assignment is to be done during the year, as assigned by the teacher from the syllabus.

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

## COMMERCIAL STUDIES

**Name of the Textbook:** I.C.S.E. Commercial Studies for Class X  
**Author:** C.B. Gupta  
**Publisher:** Goyal Brothers Prakashan

Suggested Month	Chapter Number	Name of the Chapter
April-May	1	Stakeholders in Commercial Organisations
	2	Marketing and Sales
	4	Consumer Protection
	9	Budgeting
	5	E-Commerce
	15	Government Initiatives in Environment Protection
	3	Advertising and Sales Promotion
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>	
July-September	6	Capital and Revenue Expenditure / Income
	8	Fundamental Concepts of Cost
	7	Final Accounts of Sole Proprietorship
	12	Industrial Relations, Trade Unions and Social Security
	10	Sources of Finance
	14	Banking
	13	Logistics and Insurance
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>	
October-November	11	Recruitment Selection and Training
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>	
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>	

There will be **one** theory paper of **two** hours duration carrying 80 marks and Project/Internal Assessment of 20 marks.

**Internal Assessment** – One assignment is to be done during the year, as assigned by the teacher.

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

## COMPUTER APPLICATIONS

**Name of the textbook:** Touchpad Computer Applications with BlueJ (10)

**Author:** Partha Saha

**Publisher:** Orange Education

Suggested Month	Chapter Number	Name of the Chapter	Page
April–May	1	Introduction to Object Oriented Programming Concepts	13
	2	Elementary Concept of Objects and Classes	25
	3	Values and Data Types	34
	4	Operators in Java	57
	5	Input in Java	80
	6	Mathematical Library Methods	102
	7	Conditional Constructs in Java	118
	8	Iterative Constructs in Java	159
	9	Nested Loop	204
	15	Arrays (1D Array – int type, only input and print e.g. sum and product of array elements)	378
<b>REVISION</b>			
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July	15	Arrays (Continued) (1D Array - Sorting, Searching, 2D Array) excluding String arrays	-
August	11	Class as the Basis of all Computation	273
	14	Encapsulation and Inheritance	361
	10	User-Defined Methods	229
September	10	User-Defined Methods (Continued)	-
	12	Constructors	313
<b>REVISION</b>			
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		
October	13	Library Classes	343
	16	String Handling (including array of strings)	438

November	16	String Handling (Continued)	-
<b>REVISION</b>			
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
<b>REVISION</b>			
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>		

\* Please refer to the Council's Regulations and Syllabus 2027 for the complete list of functions / methods to be covered under various topics.

**Note:** Since Computer Applications falls under Group III of the Council's syllabus, final evaluation as mentioned in the Council's syllabus 2027 will be done as follows:

1. External Examination – 50% (percentage marks)
2. Internal Assessment – 50% (percentage marks)

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

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

**Section A** (40 marks) shall consist of compulsory MCQs and short answer questions chosen from the entire syllabus. **Section B** (60 marks) shall contain questions, which require longer answers or require a greater amount of time for solving even when the answers are not long.

### Internal Assessment

The student should complete minimum of 20 laboratory assignments during the whole year to reinforce the concepts studied in the class which should comprise of source code with comments, Variable Description table and input / output (printed or hand written).

## PHYSICAL EDUCATION

**Name of the textbook:** Health & Physical Education for Class X  
(Revised Edition: September 2024)

**Author:** Digambar V. Palwe, K. N. Singh

**Publisher:** D.N. Publications

Suggested Month	Chapter Number	Name of the Chapter	Page
April-May	1	Human Growth and Development	1
	2	Physical Education	13

Class X

	3	Body Types	21
	Sec B	<b>Any two of the following games to be studied:</b> Cricket, Football, Badminton and Volleyball	
		<b>Physical Efficiency Tests</b>	
		REVISION	
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July-September	4	Physical Fitness	26
	5	Sports Training	38
	6	Safety in Sports	48
	Sec B	<b>Any two of the following games to be studied:</b> Cricket, Football, Badminton and Volleyball	
		<b>Physical Efficiency Tests</b>	
		REVISION	
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		
October-November	7	Health Education	76
	8	Careers in Physical Education	100
	Sec B	<b>Any two of the following games to be studied:</b> Cricket, Football, Badminton and Volleyball	
		<b>Physical Efficiency Tests</b>	
December	REVISION		
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>		

**Note:** Internal Assessment to be done in accordance with the **ICSE Council Syllabus 2027**.

**Part I: Theory:**

There will be one written paper of two hours duration carrying **100 marks**.

**Part 2: Internal Assessment (100 marks)**

Work to be assessed by teacher **(50 marks)**

Work to be assessed by external examiner **(50 marks):** It will include Physical Efficiency Tests and Specialization Tests.

## ART (60) - X

**Name of the Drawing Book:** 1. Alankar – Part 5

**Artist:** Chaman Kiran

**Publisher:** Nageen Prakashan

2. Still Life by Sanjay Shelar,  
Jyotsana Prakashan

Suggested Month	Name of the Chapter	No of Sessions
April	Sketching and practice session	2+5
	<b>Still Life (Paper I)</b> - A teapot, sugar pot, a spoon inside a cup, saucer, milk pot	
	<b>Still Life (Paper I)</b> - Bournvita big size refill pack, coffee mug and a cake	5
	<b>Nature Drawing (Paper II)</b> - Dahliya	5
	<b>Nature Drawing (Paper II)</b> - Sweet Pea	6
		23
May	<b>Still Life</b> - Kitchen Utensils	9
	<b>Nature Drawing</b> - Croton	3
	<b>Carnation</b>	5
		17
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>	
July	<b>Still Life (Paper I)</b> - A loaf of bread, 2 bananas, a jug filled with juice, jam, a picnic basket and a piece of an apple	4
	<b>Still Life (Paper I)</b> - A glass of milk, sandwich, 2 boiled and chopped eggs on a plate	4
	<b>Nature Drawing (Paper II)</b> - Cactus	4
	<b>Nature Drawing (Paper II)</b> - Succulents	5
	<b>Nature Drawing (Paper II)</b> - Champa	4
		21
August	<b>Project work</b> - Pottery work	11+10
	<b>Project work</b> - Block Printing	
		21

Class X

September	<b>Project work - Batik Art</b>	7
	<b>Nature Drawing - Aster</b>	6
		13
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>	
October	<b>Still Life (Paper I) - Table lamp, a dictionary, a pair of spectacles, an inkpot and an open book</b>	7
	<b>Still Life (Paper I) - A shoe box, a pair of shoes, a tin of polish, a brush and a duster</b>	6
	<b>Nature Drawing (Paper II) - Juhi</b>	6
		19
November	<b>Project Work - Ceramic clay work</b>	8
	<b>Still Life (Paper I) - An orange juice, an Apple, Guava with its leaves, Banana and Papaya cut into two pieces in a shopping basket</b>	5
	<b>Nature Drawing (Paper II) - Bela</b>	5
		18
December	REVISION	
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>	
January	REVISION	
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>	

**Note:** Candidates must submit at least 4 sets and not less than 2 samples / example of craftwork which they have executed during the school year in any one craft from the given eight categories. Further evidence of study in the form of working drawings, small book or photographs may also be submitted. The work submitted must be the unaided work of the candidates. It must be accompanied by the statement from the art teacher and the Principal of the school to this effect.

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

## ROBOTICS AND ARTIFICIAL INTELLIGENCE

**Name of the textbook:** Exploring Robotics and Artificial Intelligence with Python

**Author:** Vijay Kumar Pandey, Dilip Kumar Pandey (Assisted by Saurav Kumar Pandey)

**Publisher:** Avichal Publishing Company

Suggested Month	Name of the Chapter
April-May	New Age Robotic Systems
	Types of Robotics
	Machines v/s Robots
	Cobots
	Components of Robots as a system
	Introduction to Gears
	Sensor in Robotics
	List and Tuples
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>
July-September	Actuators
	Controller for a Robotic System
	Integrating Sensors Actuators and Controller
	Visualisation, Design Creation of Components
	Application of Mechanical Blocks
	Visualisation of Motion
	Integrating Robots as a system
	Introduction to Data & Programming with Python
	Module & Packages (Numpy, Scipy, Pandas, Matplotlib)
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>
October	Decision Making in Machines / Computers
	Decision making in Machines / Computers
	Automated vs Autonomous Systems
	Decision Making
	Machine Learning

Class X

	Machine Learning and cyber security in computing
	Machine Intelligence & cyber security in computing
November	Components of AI Project Frame work – Problem scoping, Data Acquisition, Data exploration, Modelling and Evaluation
	Strings in Python
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>
December	REVISION
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>

Please refer to the Council's Regulations and Syllabus 2027.

**Note:** Since Robotics and Artificial Intelligence falls under Group III of the Council's syllabus, final evaluation as mentioned on page 4 of Council's syllabus 2027 will be done as follows:

1. External Examination – 50% (percentage marks)
2. Internal Assessment – 50% (percentage marks)

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

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

**Section A** (40 marks) shall consist of compulsory MCQs and short answer questions chosen from the entire syllabus. **Section B** (60 marks) shall contain questions, which require longer answers or require a greater amount of time for solving even when the answers are not long.

#### Internal Assessment

The student should complete minimum of 15 laboratory assignments during the whole year to reinforce the concepts studied in the class. The details are as follows:

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

## ENVIRONMENTAL SCIENCE

Name of the textbook: **ICSE Environmental Science – X**

Author: **Amita Ganguly**

Publisher: **Marina Publication**

Suggested Month	Chapter Number	Name of the Chapter	Page
April	1	Controlling Air Pollution	9
	2	Addressing Population	15
May	3	Managing the Urban Environment	23
	4	Managing Soil and Land	37
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>		
July	5	Food	55
	6	Biodiversity	71
August-September	7	Energy	87
	8	Waste	101
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>		
October	9	Environment and Development	107
November	10	Towards a Sustainable Future	118
December	REVISION		
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>		
<b>January</b>	<b>SECOND PRE BOARD 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.

## ECONOMIC APPLICATIONS

Name of the Textbook: ICSE Economics – Class X

Author: J P Goel

Publisher: Goyal Prakashan

Suggested Month	Unit No.	Name of the Unit
April-May	2	Factors of Production <ul style="list-style-type: none"> <li>• Land</li> <li>• Labour</li> <li>• Capital</li> </ul>
		Entrepreneur
		Alternative Market Structures
		Submission of Project 1 & 2
<b>June</b>	<b>FIRST COMPARATIVE EXAMINATION</b>	
July-August	1	Elementary Theory of Demand
		Elasticity of Demand
		Theory of Supply
September	5	Inflation
		Submission of Project 3 & 4
<b>September</b>	<b>SECOND COMPARATIVE EXAMINATION</b>	
October-November	5	Commercial Bank and Central Bank
	4	State and Economic Development
<b>December</b>	<b>FIRST PRE BOARD EXAMINATION</b>	
<b>January</b>	<b>SECOND PRE BOARD EXAMINATION</b>	

Theory Paper – 100 marks

Project (4 assignments) – 100 marks

There will be **one** theory paper of **two** hours duration carrying 100 marks and Project/Internal Assessment of 20 marks.

**Internal Assessment: One** assignments is to be done during the year, as assigned by the teacher from the syllabus.

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

## ADVANCED MATHEMATICS

Name of the Textbook: Cambridge IGCSE and O Level  
Additional Mathematics Coursebook  
(Only for teachers)

Author: Sue Pemberton

Publisher: Cambridge University Press  
(Second edition)

Suggested Month	Chapter Number	Name of the Chapter
April	1	Modulus
	5	Inequalities (including graphs)
May-July	9	Trigonometry including the following: Basic Trigonometry, Sine and Cosine Rules, Graphs, Area of a Triangle, Transformation, Formulae of $\sin(A \pm B)$ and $\cos(A \pm B)$
		<b>FIRST ASSESSMENT (One paper with calculator) (Syllabus from April to July)</b>
August (First week)	12, 14	Differentiation
	14	Application of Derivatives
October-November	15	Integration (both indefinite and definite, excluding properties of definite integrals and application of integrals)
<b>December</b>	<b>SECOND ASSESSMENT Two papers – Paper 1 (Non-Calculator) and Paper 2 (Calculator) (Syllabus from April to November)</b>	

**Note:**

- There will be two assessments for 'Advanced Mathematics' in the academic session – one in the month of August and the other in the month of December.
- First Assessment will be on the syllabus for the months April to July. There will be only one paper with calculator in the First Assessment.
- Second Assessment will be on the entire syllabus from April to November. There will be two papers in the Second Assessment - Paper 1(Non-Calculator) and Paper 2(Calculator).
- Each paper of the assessments will be of two hours duration carrying 80 marks. There is no provision of extra reading time.