



**CBSE CLASS 10 SYLLABUS**  
**CLASS X (2021-22)**  
**ALL SUBJECTS – EVALUATION SCHEME**

**NEW UPDATED TERMWISE  
SYLLABUS OF CLASS – 10  
TERM – 1 & 2 (2021-22)**

**CBSE CLASS 10 (2021-22)**  
**ALL SUBJECTS SYLLABUS**  
**CLASS X – EVALUATION SCHEME**

**SCIENCE**  
**CODE NO. (086)**

**CBSE TERM – 1 & 2**  
**RATIONALIZED SYLLABUS**  
**2021-22**

## COURSE STRUCTURE

<b><u>CLASS X - EVALUATION SCHEME</u></b>		
<b>Theory</b>		
<b>Units</b>	<b>Term- I</b>	<b>Marks</b>
<b>I</b>	<b>Chemical Substances-Nature and Behaviour: Chapter 1,2 and 3</b>	<b>16</b>
<b>II</b>	<b>World of Living: Chapter 6 (Life Processes)</b>	<b>10</b>
<b>III</b>	<b>Natural Phenomena: Chapter 10 and 11</b>	<b>14</b>
	<b>TOTAL</b>	<b>40</b>
<b>Units</b>	<b>Term - II</b>	<b>Marks</b>
<b>I</b>	<b>Chemical Substances-Nature and Behaviour: Chapter 4 and 5</b>	<b>10</b>
<b>II</b>	<b>World of Living: Chapter 8 and 9</b>	<b>13</b>
<b>IV</b>	<b>Effects of Current: Chapter 12 and 13</b>	<b>12</b>
<b>V</b>	<b>Natural Resources: Chapter 15</b>	<b>5</b>
	<b>TOTAL</b>	<b>40</b>
<b>Total Theory (Term I+II)</b>		<b>80</b>
<b>Internal Assessment: Term I</b>		<b>10</b>
<b>Internal Assessment: Term II</b>		<b>10</b>
<b>Grand Total</b>		<b>100</b>

## TERM - I

### Theme: Materials

### Unit I: Chemical Substances - Nature and Behaviour (Chemistry)

#### Chapter -1 Chemical reactions and equations

**Chemical reactions:** Chemical equation, Balanced chemical equation, implications of a balanced chemical equation,

types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.

#### Chapter – 2 Acids, Bases and Salts

**Acids, bases and salts:** Their definitions in terms of furnishing of  $H^+$  and  $OH^-$  ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life;

preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.

#### Chapter – 3 Metals and non – metals

**Metals and nonmetals:** Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds.

## **Theme: The World of the Living (Biology)**

### **Unit II: World of Living**

#### **Chapter – 6 : Life processes**

**Life processes:** 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.

## **Theme: How Things Work (Physics)**

### **Unit III: Natural Phenomena**

#### **Chapter – 10 : Light – Reflection and Refraction**

Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification.

Refraction; Laws of refraction, refractive index.

Refraction of light by spherical lens; Image formed by spherical lenses;

Lens formula (Derivation not required); Magnification. Power of a lens.

#### **Chapter – 11 : Human eye and colourful world**

Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life

## TERM - II

### Theme: Materials

#### Unit I: Chemical Substances - Nature and Behaviour

##### Chapter – 4 Carbon and its compounds

**Carbon compounds:** Covalent bonding in carbon compounds.

Versatile nature of carbon. Homologous series.

##### Chapter – 5 Periodic classification of elements

**Periodic classification of elements:** Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.

##### **Theme: The World of the Living**

##### **Unit II: World of Living**

##### **Chapter – 8 How do organisms reproduce?**

**Reproduction:** Reproduction in animals and plants (asexual and sexual) reproductive health-need and methods of family planning. Safe sex vs HIV/AIDS.

Child bearing and women's health.

##### **Chapter – 9 Heredity and Evolution**

**Heredity:** Heredity; Mendel's contribution- Laws for inheritance of traits:

Sex determination: brief introduction;

## **Theme: Natural Phenomena**

### **Unit IV: Effects of Current**

#### **Chapter – 12 Electricity:**

Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.

#### **Chapter – 13 Magnetic effects of current :**

**Magnetic effects of current:** Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule.

## **Theme: Natural Resources**

### **Unit V: Natural Resources**

#### **Chapter – 15 Our Environment :**

**Our environment:** Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.

#### **Chapter – 16 Management of natural resources:**

**(ONLY FOR INTERNAL ASSESSMENT and Not for *year-end examination*)**

**CBSE CLASS 10 (2021-22)**  
**ALL SUBJECTS SYLLABUS**  
**CLASS X – EVALUATION SCHEME**

**SOCIAL SCIENCE**  
**CODE NO. (087)**

**CBSE TERM – 1 & 2**  
**RATIONALIZED SYLLABUS**  
**2021-22**



**SOCIAL SCIENCE – CLASS 10 - EVALUATION SCHEME (2021-22)****Theory**

<b>Units</b>	<b>Term- I</b>	<b>Marks</b>
<b>I</b>	<b>India and the Contemporary World -1</b>	<b>10</b>
<b>II</b>	<b>Contemporary India – I</b>	<b>10</b>
<b>III</b>	<b>Democratic Politics – I</b>	<b>10</b>
<b>IV</b>	<b>Economics</b>	<b>10</b>
	<b>Total</b>	<b>40</b>
<b>Units</b>	<b>Term - II</b>	<b>Marks</b>
<b>I</b>	<b>India and the Contemporary World -1</b>	<b>10</b>
<b>II</b>	<b>Contemporary India – I</b>	<b>10</b>
<b>III</b>	<b>Democratic Politics – I</b>	<b>10</b>
<b>IV</b>	<b>Economics</b>	<b>10</b>
	<b>Total</b>	<b>40</b>
<b>Total Theory (Term I+II)</b>		<b>80</b>
<b>Internal Assessment: Term I</b>		<b>10</b>
<b>Internal Assessment: Term II</b>		<b>10</b>
<b>Grand Total</b>		<b>100</b>

**COURSE CONTENT – CLASS X (2021-22)**

<b>TERM- I</b>	
<b>Unit 1: India and the Contemporary World – II (HISTORY)</b>	
<b><i>Section 1: Events and Processes</i></b>	<b>Learning Objectives</b>
<b>1. The Rise of Nationalism in Europe</b> <ul style="list-style-type: none"><li>• The French Revolution and the Idea of the Nation</li><li>• The Making of Nationalism in Europe</li><li>• The Age of Revolutions: 1830-1848</li><li>• The Making of Germany and Italy</li><li>• Visualizing the Nation</li><li>• Nationalism and Imperialism</li></ul>	<p>Enable the learners to identify and comprehend the forms in which nationalism developed along with the formation of nation states in Europe in the post-1830 period.</p> <ul style="list-style-type: none"><li>• Establish the relationship and bring out the difference between European nationalism and anti-colonial nationalisms.</li><li>• Understand the way the idea of nationalism emerged and led to the formation of nation states in Europe and Elsewhere.</li></ul>

<b>Unit 2: Contemporary India – II</b>	
<b>Themes</b>	<b>Learning Objectives</b>
<p><b>1. Resources and Development</b></p> <ul style="list-style-type: none"> <li>• Types of Resources</li> <li>• Development of Resources</li> <li>• Resource Planning in India</li> <li>• Land Resources</li> <li>• Land Utilization</li> <li>• Land Use Pattern in India</li> <li>• Land Degradation and Conservation Measures</li> <li>• Soil as a Resource</li> <li>• Classification of Soils</li> <li>• Soil Erosion and Soil Conservation</li> </ul> <p><b>3. Water Resources</b></p> <ul style="list-style-type: none"> <li>• Water Scarcity and The Need for Water Conservation and Management</li> <li>• Multi-Purpose River Projects and Integrated Water Resources Management</li> <li>• Rainwater Harvesting</li> </ul> <p><small>Note: The theoretical aspect of chapter 'Water Resources' to be assessed in the Periodic Tests only and will not be evaluated in Board Examination. However, the map items of this chapter as listed will be evaluated in Board Examination.</small></p> <p><b>4. Agriculture</b></p> <ul style="list-style-type: none"> <li>• Types of farming</li> <li>• Cropping Pattern</li> <li>• Major Crops</li> <li>• Technological and Institutional Reforms</li> <li>• Impact of Globalization on Agriculture</li> </ul>	<ul style="list-style-type: none"> <li>• Understand the value of resources and the need for their judicious utilization and conservation.</li> <li>• Comprehend the importance of water as a resource as well as develop awareness towards its judicious use and conservation.</li> <li>• Identify different Dams in the country.</li> <li>• Explain the importance of agriculture in national economy.</li> <li>• Identify various types of farming and discuss the various farming methods; describe the spatial distribution of major crops as well as understand the relationship between rainfall regimes and cropping pattern.</li> <li>• Explain various government policies for institutional as well as technological reforms since independence.</li> </ul>

<b>Unit 3: Democratic Politics – II</b>	
<b>Themes</b>	<b>Learning Objectives</b>
<p><b>1. Power Sharing</b></p> <ul style="list-style-type: none"> <li>• Case Studies of Belgium and Sri Lanka</li> <li>• Why power sharing is desirable?</li> <li>• Forms of Power Sharing</li> </ul> <p><b>2. Federalism</b></p> <ul style="list-style-type: none"> <li>• What is Federalism?</li> <li>• What make India a Federal Country?</li> <li>• How is Federalism practiced?</li> <li>• Decentralization in India</li> </ul>	<ul style="list-style-type: none"> <li>• Familiarize with the centrality of power sharing in a democracy.</li> <li>• Understand the working of spatial and social power sharing mechanisms.</li> <li>• Analyse federal provisions and institutions.</li> <li>• Explain decentralization in rural and urban areas.</li> </ul>
<b>Unit 4: Economics</b>	
<b>Themes</b>	<b>Learning Objectives</b>
<p><b>1. Development</b></p> <ul style="list-style-type: none"> <li>• What Development Promises - Different people different goals</li> <li>• Income and other goals</li> <li>• National Development</li> <li>• How to compare different countries or states?</li> <li>• Income and other criteria</li> <li>• Public Facilities</li> <li>• Sustainability of development</li> </ul> <p><b>2. Sectors of the Indian Economy</b></p> <ul style="list-style-type: none"> <li>• Sectors of Economic Activities</li> <li>• Comparing the three sectors</li> <li>• Primary, Secondary and Tertiary Sectors in India</li> <li>• Division of sectors as organized and unorganized</li> <li>• Sectors in terms of ownership: Public and Private Sectors</li> </ul>	<ul style="list-style-type: none"> <li>• Familiarize with concepts of macroeconomics.</li> <li>• Understand the rationale for overall human development in our country, which includes the rise of income, improvements in health and education rather than income.</li> <li>• Understand the importance of quality of life and sustainable development.</li> <li>• Identify major employment generating sectors.</li> <li>• Reason out the government investment in different sectors of economy.</li> </ul>

**LIST OF MAP ITEMS**  
**CLASS X (2021-22)**  
**TERM – I**

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**A. GEOGRAPHY**

**Chapter 1: Resources and Development**

- a. Major soil Types

**Chapter 3: Water Resources**

**Dams:**

- a. Salal
- b. Bhakra Nangal
- c. Tehri
- d. Rana Pratap Sagar
- e. Sardar Sarovar
- f. Hirakud
- g. Nagarjuna Sagar
- h. Tungabhadra

Note: The theoretical aspect of chapter 'Water Resources' to be assessed in the Periodic Tests only and will not be evaluated in Board Examination. However, the map items of this chapter as listed above will be evaluated in Board Examination.

**Chapter 4: Agriculture**

- a. Major areas of Rice and Wheat
- b. Largest / Major producer States of Sugarcane, Tea, Coffee, Rubber, Cotton and Jute

## COURSE CONTENT – X

TERM - II	
Unit 1: India and the Contemporary World – II	
Themes	Learning Objectives
<p><b><i>Section 1: Events and Processes</i></b></p> <p><b>2. Nationalism in India</b></p> <ul style="list-style-type: none"> <li>• The First World War, Khilafat and Non - Cooperation</li> <li>• Differing Strands within the Movement</li> <li>• Towards Civil Disobedience</li> <li>• The Sense of Collective Belonging</li> </ul> <p><b>Section 2: Livelihoods, Economies and Societies</b></p> <p><small>Note: Any one theme of the following. The theme selected should be assessed in the periodic test only and will not be evaluated in the board examination:</small></p> <p><b>3. The Making of a Global World</b></p> <ul style="list-style-type: none"> <li>• The Pre-modern world</li> <li>• The Nineteenth Century (1815-1914)</li> <li>• The Inter war Economy</li> <li>• Rebuilding a World Economy: The Post-War Era</li> </ul> <p><b>4. The Age of Industrialization</b></p> <ul style="list-style-type: none"> <li>• Before the Industrial Revolution</li> <li>• Hand Labour and Steam Power</li> <li>• Industrialization in the colonies</li> <li>• Factories Come Up</li> <li>• The Peculiarities of Industrial Growth</li> <li>• Market for Goods</li> </ul>	<ul style="list-style-type: none"> <li>• Recognize the characteristics of Indian nationalism through a case study of Non-Cooperation and Civil Disobedience Movement.</li> <li>• Analyze the nature of the diverse social movements of the time.</li> <li>• Familiarize with the writings and ideals of different political groups and individuals.</li> <li>• Appreciate the ideas promoting Pan Indian belongingness.</li> </ul> <ul style="list-style-type: none"> <li>• Show that globalization has a long history and point to the shifts within the process.</li> <li>• Analyze the implication of globalization for local economies.</li> <li>• Discuss how globalization is experienced differently by different social groups.</li> </ul> <ul style="list-style-type: none"> <li>• Familiarize with the Pro- to-Industrial phase and Early – factory system.</li> <li>• Familiarize with the process of industrialization and its impact on labour class.</li> <li>• Enable them to understand industrialization in the colonies with reference to Textile industries.</li> </ul>

<b>Unit 2: Contemporary India – II</b>	
<b>Themes</b>	<b>Learning Objectives</b>
<p><b>5. Minerals and Energy Resources</b></p> <ul style="list-style-type: none"> <li>• What is a mineral?</li> <li>• Mode of occurrence of Minerals</li> <li>• Ferrous and Non-Ferrous Minerals</li> <li>• Non-Metallic Minerals</li> <li>• Rock Minerals</li> <li>• Conservation of Minerals</li> <li>• Energy Resources               <ul style="list-style-type: none"> <li>○ Conventional and Non-Conventional</li> </ul> </li> <li>• Conservation of Energy Resources</li> </ul> <p><small>Note: The theoretical aspect of chapter 'Minerals and Energy Resources' to be assessed in the Periodic Tests only and will not be evaluated in Board Examination. However, the map items of this chapter as given in the Map List will be evaluated in Board Examination</small></p> <p><b>6. Manufacturing Industries</b></p> <ul style="list-style-type: none"> <li>• Importance of manufacturing</li> <li>• Contribution of Industry to National Economy</li> <li>• Industrial Location</li> <li>• Classification of Industries</li> <li>• Spatial distribution</li> <li>• Industrial pollution and environmental degradation</li> <li>• Control of Environmental Degradation</li> </ul> <p><b>7. Life Lines of National Economy</b></p> <ul style="list-style-type: none"> <li>• Transport – Roadways, Railways, Pipelines, Waterways, Airways</li> <li>• Communication</li> <li>• International Trade</li> <li>• Tourism as a Trade</li> </ul>	<ul style="list-style-type: none"> <li>• Identify different types of minerals and energy resources and places of their availability</li> <li>• Feel the need for their judicious utilization</li> </ul> <ul style="list-style-type: none"> <li>• Bring out the importance of industries in the national economy as well as understand the regional disparities which resulted due to concentration of industries in some areas.</li> <li>• Discuss the need for a planned industrial development and debate over the role of government towards sustainable development.</li> </ul> <ul style="list-style-type: none"> <li>• Explain the importance of transport and communication in the ever-shrinking world.</li> <li>• Understand the role of trade and tourism in the economic development of a country.</li> </ul>
<b>Unit 3: Democratic Politics – II</b>	
<b>Themes</b>	<b>Learning Objectives</b>
<b>6. Political Parties</b>	<ul style="list-style-type: none"> <li>• Analyze party systems in democracies.</li> </ul>

<ul style="list-style-type: none"> <li>• Why do we need Political Parties?</li> <li>• How many Parties should we have?</li> <li>• National Political Parties</li> <li>• State Parties</li> <li>• Challenges to Political Parties</li> <li>• How can Parties be reformed?</li> </ul> <p><b>7. Outcomes of Democracy</b></p> <ul style="list-style-type: none"> <li>• How do we assess democracy's outcomes?</li> <li>• Accountable, responsive and legitimate government</li> <li>• Economic growth and development</li> <li>• Reduction of inequality and poverty</li> <li>• Accommodation of social diversity</li> <li>• Dignity and freedom of the citizens</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to major political parties, challenges faced by them and reforms in the country.</li> <li>• Evaluate the functioning of democracies in comparison to alternative forms of governments.</li> <li>• Understand the causes for continuation of democracy in India.</li> <li>• Distinguish between sources of strengths and weaknesses of Indian democracy.</li> </ul>
<b>Unit 4: Economics</b>	
<b>Themes</b>	<b>Learning Objectives</b>
<p><b>3. Money and Credit</b></p> <ul style="list-style-type: none"> <li>• Money as a medium of exchange</li> <li>• Modern forms of money</li> <li>• Loan activities of Banks</li> <li>• Two different credit situations</li> <li>• Terms of credit</li> <li>• Formal sector credit in India</li> <li>• Self Help Groups for the Poor</li> </ul> <p><b>4. Globalization and the Indian Economy</b></p> <ul style="list-style-type: none"> <li>• Production across countries</li> <li>• Interlinking production across countries</li> <li>• Foreign Trade and integration of markets</li> <li>• What is globalization?</li> <li>• Factors that have enabled Globalization</li> <li>• World Trade Organization</li> <li>• Impact of Globalization on India</li> <li>• The Struggle for a fair Globalization</li> </ul>	<ul style="list-style-type: none"> <li>• Understand money as an economic concept.</li> <li>• Understand the role of financial institutions from the point of view of day-to-day life.</li> <li>• Explain the working of the Global Economic phenomenon.</li> </ul>



**LIST OF MAP ITEMS**  
**CLASS X (2021-22)**  
**TERM – II**

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**A. HISTORY** (Outline Political Map of India)

**Chapter - 2 Nationalism in India – (1918 – 1930)** for Locating and Labelling / Identification

**1. Indian National Congress Sessions:**

- a. Calcutta (Sep. 1920)
- b. Nagpur (Dec. 1920)
- c. Madras (1927)

**2. Important Centres of Indian National Movement**

- a. Champaran (Bihar) - Movement of Indigo Planters
- b. Kheda (Gujarat) - Peasant Satyagrah
- c. Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha
- d. Amritsar (Punjab) - Jallianwala Bagh Incident
- e. Chauri Chaura (U.P.) - Calling off the Non-Cooperation Movement
- f. Dandi (Gujarat) - Civil Disobedience Movement

**B. GEOGRAPHY** (Outline Political Map of India)

**Chapter 5: Minerals and Energy Resources**

**Power Plants-(Locating and Labelling only)**

**a. Thermal**

- Namrup
- Singrauli

- Ramagundam

**b. Nuclear**

- Narora
- Kakrapara

- Tarapur
- Kalpakkam

**Chapter 6: Manufacturing Industries (Locating and Labelling Only)**

**Cotton Textile Industries:**

- a. Mumbai
- b. Indore
- c. Surat

- d. Kanpur
- e. Coimbatore

**Iron and Steel Plants:**

- a. Durgapur
- b. Bokaro
- c. Jamshedpur

- d. Bhilai
- e. Vijaynagar
- f. Salem

**Software Technology Parks:**

- a. Noida
- b. Gandhinagar
- c. Mumbai

- e. Hyderabad
- f. Bengaluru
- g. Chennai

**Chapter 7: Lifelines of National Economy**

**Major Ports: (Locating and Labelling)**

- a. Kandla
- b. Mumbai
- c. Marmagao
- d. New Mangalore
- e. Kochi

- f. Tuticorin
- g. Chennai
- h. Vishakhapatnam
- i. Paradip
- j. Haldia

**International Airports:**

- a. Amritsar (Raja Sansi)
- b. Delhi (Indira Gandhi International)

**CBSE CLASS 10 (2021-22)**  
**ALL SUBJECTS SYLLABUS**  
**CLASS X – EVALUATION SCHEME**

**MATHEMATICS**  
**CODE NO. (041)**

**CBSE TERM – 1 & 2**  
**RATIONALIZED SYLLABUS**  
**2021-22**

**MATHS – CLASS 10 - EVALUATION SCHEME (2021-22)**

<b>Units</b>	<b>Term- I – DURATION -90 Minutes</b>	<b>Marks</b>
I	NUMBER SYSTEMS	6
II	ALGEBRA	10
III	COORDINATE GEOMETRY	6
	GEOMETRY	6
	TRIGONOMETRY	5
	MENSURATION	4
	STATISTICS & PROBABILITY	3
	<b>TOTAL</b>	<b>40</b>
	INTERNAL ASSESSMENT	10
	<b>TOTAL – TERM - 1</b>	<b>50</b>
<b>Units</b>	<b>Term - II</b>	<b>Marks</b>
I	ALGEBRA(Cont.)	10
II	GEOMETRY(Cont.)	9
III	TRIGONOMETRY(Cont.)	7
IV	MENSURATION(Cont.)	6
V	STATISTICS & PROBABILITY(Cont.)	8
	<b>TOTAL</b>	<b>40</b>
	INTERNAL ASSESSMENT	10
	<b>TOTAL – TERM - 2</b>	<b>50</b>
<b>Total Theory (Term I+II)</b>		<b>80</b>
<b>Internal Assessment: Term I</b>		<b>10</b>
<b>Internal Assessment: Term II</b>		<b>10</b>
<b>Grand Total</b>		<b>100</b>

## TERM- I SYLLABUS (2021-22)

### **UNIT-NUMBER SYSTEMS**

#### **1. REAL NUMBER**

Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples. Decimal representation of rational numbers in terms of terminating/non-terminating recurring decimals.

### **UNIT-ALGEBRA**

#### **2. POLYNOMIALS**

Zeroes of a polynomial. Relationship between zeroes and coefficients of quadratic polynomials only.

#### **3. PAIR OF LINEAR EQUATIONS IN TWO VARIABLES**

Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution and by elimination. Simple situational problems. Simple problems on equations reducible to linear equations.

### **UNIT-COORDINATE GEOMETRY**

#### **4. COORDINATE GEOMETRY**

LINES (In two-dimensions)

Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division)

### **UNIT-GEOMETRY**

#### **5. TRIANGLES**

Definitions, examples, counter examples of similar triangles.

1. (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.
2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.

3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar.
4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar.
5. (Motivate) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar.
6. (Motivate) If a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse, the triangles on each side of the perpendicular are similar to the whole triangle and to each other.
7. (Motivate) The ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides.
8. (Prove) In a right triangle, the square on the hypotenuse is equal to the sum of the squares on the other two sides.
9. (Motivate) In a triangle, if the square on one side is equal to sum of the squares on the other two sides, the angle opposite to the first side is a right angle.

## **UNIT- TRIGONOMETRY**

### **6. INTRODUCTION TO TRIGONOMETRY**

Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined). Values of the trigonometric ratios of  $30^\circ$ ,  $45^\circ$  and  $60^\circ$ . Relationships between the ratios.

#### **TRIGONOMETRIC IDENTITIES**

Proof and applications of the identity  $\sin^2 A + \cos^2 A = 1$ . Only simple identities to be given

## **UNIT-MENSURATION**

### **7. AREAS RELATED TO CIRCLES**

Motivate the area of a circle; area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of  $60^\circ$  and  $90^\circ$  only. Plane figures involving triangles, simple quadrilaterals and circle should be taken.)

## **UNIT- STATISTICS & PROBABILITY**

### **8. PROBABILITY**

Classical definition of probability. Simple problems on finding the probability of an event.

## TERM- II SYLLABUS (2021-22)

### UNIT-ALGEBRA

#### 1. QUADRATIC EQUATIONS

(10) Periods

Standard form of a quadratic equation  $ax^2 + bx + c = 0$ , ( $a \neq 0$ ). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities (problems on equations reducible to quadratic equations are excluded)

#### 2. ARITHMETIC PROGRESSIONS

Motivation for studying Arithmetic Progression Derivation of the  $n$ th term and sum of the first  $n$  terms of A.P. and their application in solving daily life problems. (Applications based on sum to  $n$  terms of an A.P. are excluded)

### UNIT- GEOMETRY

#### 3. CIRCLES

Tangent to a circle at, point of contact

1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact.
2. (Prove) The lengths of tangents drawn from an external point to a circle are equal.

#### 4. CONSTRUCTIONS

1. Division of a line segment in a given ratio (internally).
2. Tangents to a circle from a point outside it.

### UNIT-TRIGONOMETRY

#### 5. SOME APPLICATIONS OF TRIGONOMETRY

HEIGHTS AND DISTANCES-Angle of elevation, Angle of Depression.  
Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$ .

### UNIT-MENSURATION

#### 6. SURFACE AREAS AND VOLUMES

1. Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.
2. Problems involving converting one type of metallic solid into another and other mixed problems. (Problems with combination of not more than two different solids be taken).

## **UNIT-STATISTICS & PROBABILITY**

### **7. STATISTICS**

Mean, median and mode of grouped data (bimodal situation to be avoided). Mean by Direct Method and Assumed Mean Method only

<b>INTERNAL ASSESSMENT</b>	<b>MARKS</b>	<b>TOTAL MARKS</b>
<b>Periodic Tests</b>	<b>3</b>	<b>10 marks for the term</b>
<b>Multiple Assessments</b>	<b>2</b>	
<b>Portfolio</b>	<b>2</b>	
<b>Student Enrichment Activities-practical work</b>	<b>3</b>	

### **PRESCRIBED BOOKS**

1. Mathematics - Textbook for class IX - NCERT Publication
2. Mathematics - Textbook for class X - NCERT Publication
3. Guidelines for Mathematics Laboratory in Schools, class IX - CBSE Publication
4. Guidelines for Mathematics Laboratory in Schools, class X - CBSE Publication
5. Laboratory Manual - Mathematics, secondary stage - NCERT Publication
6. Mathematics exemplar problems for class IX, NCERT publication.
7. Mathematics exemplar problems for class X, NCERT publication.

**CBSE CLASS 10 (2021-22)**  
**ALL SUBJECTS SYLLABUS**  
**CLASS X – EVALUATION SCHEME**

**English Language and Literature**  
**CODE NO. (184)**

**CBSE TERM – 1 & 2**  
**RATIONALIZED SYLLABUS**  
**2021-22**



**ENGLISH CLASS 10 - EVALUATION SCHEME (2021-22)****TERM - I**

SECTION	WEIGHTAGE (IN MARKS)
READING	10
WRITING & GRAMMAR	10
LITERATURE	20
<b>TOTAL</b>	<b>40</b>
INTERNAL ASSESSMENT ( <u>TERM-I</u> )	10
<u><b>TOTAL (TERM-I)</b></u>	<u><b>50</b></u>

**TERM - II**

SECTION	WEIGHTAGE (IN MARKS)
READING	10
WRITING & GRAMMAR	10
LITERATURE	20
<b>TOTAL</b>	<b>40</b>
INTERNAL ASSESSMENT ( <u>TERM-II</u> )	10
<u><b>TOTAL (TERM -II)</b></u>	<u><b>50</b></u>
<u><b>GRAND TOTAL (TERM - I + TERM - II)</b></u>	<u><b>100</b></u>

## ENGLISH – CLASS 10 - EVALUATION SCHEME (2021-22)

### Term - I

#### READING

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Discursive passage (400-450 words)
2. Case based Factual passage (with visual input/ statistical data/ chart etc. 300-350 words)

#### WRITING SKILL

1. Formal letter based on a given situation.
  - Letter to the Editor
  - Letter of Complaint (Official)
  - Letter of Complaint (Business)

#### GRAMMAR

1. Tenses
2. Modals
3. Subject-Verb Concord
4. Determiner
5. Reported Speech
6. Commands and Requests
7. Statements
8. Questions

#### LITERATURE

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

#### FIRST FLIGHT

1. A Letter to God
2. Nelson Mandela
3. Two Stories About Flying
4. From the Diary of Anne Frank
5. The Hundred Dresses 1
6. The Hundred Dresses 2

## **POEMS**

1. Dust of Snow
2. Fire and Ice
3. A Tiger in the Zoo
4. The Ball Poem

## **FOOTPRINTS WITHOUT FEET**

1. A Triumph of Surgery
2. The Thief's Story
3. Footprints Without Feet

## **Term - II**

### **READING**

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Discursive passage (400-450 words)
2. Case based Factual passage (with visual input/ statistical data/ chart etc. 300-350 words)

### **WRITING SKILL**

1. Formal letter based on a given situation
  - Letter of Order
  - Letter of Enquiry
2. Analytical Paragraph (based on outline/chart/cue/map/report etc.)

## **GRAMMAR**

1. Tenses
2. Modals
3. Subject Verb Concord
4. Determiner
5. Reported Speech
6. Commands and Requests
7. Statements
8. Questions

## **LITERATURE**

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

### **FIRST FLIGHT**

1. Glimpses of India
2. Madam Rides the Bus
3. The Sermon at Benares
4. The Proposal (Play)

### **POEMS**

1. Amanda
2. Animals
3. The Tale of Custard the Dragon

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### **FOOTPRINTS WITHOUT FEET**

1. The Making of a Scientist
2. The Necklace
3. The Hack Driver
4. Bholi

**CBSE CLASS 10 (2021-22)**  
**ALL SUBJECTS SYLLABUS**  
**CLASS X – EVALUATION SCHEME**

**हिंदी मातृभाषा [HINDI –(A)]**  
**(कोड 002)**

**CBSE TERM – 1 & 2**  
**RATIONALIZED SYLLABUS**  
**2021-22**

## HINDI (A) – CLASS 10 - EVALUATION SCHEME (2021-22)

**हिंदी पाठ्यक्रम -अ (कोड सं. 002) कक्षा 10वीं हिंदी - अ परीक्षा हेतु पाठ्यक्रम विनिर्देशन 2021-22**

परीक्षा भार विभाजन सत्र 1				
	विषयवस्तु		उप भार	कुलभार
1	अपठित गद्यांश व काव्यांश पर चिंतन क्षमता एवं अभिव्यक्ति कौशल पर आधारित बहुविकल्पी प्रश्न।			10
	अ	एक अपठित गद्यांश 150 से 200 शब्दों का (1x5=5) विकल्प सहित	5	
	ब	एक अपठित काव्यांश 150 से 200 शब्दों का (1x5=5) विकल्प सहित	5	
2	व्याकरण के लिए निर्धारित विषयों पर विषय-वस्तु का बोध, भाषिक बिंदु /संरचना आदि पर बहुविकल्पी प्रश्न प्रश्न (1x16) कुल 20 प्रश्न पूछे जाएँगे जिसमें से केवल 16 प्रश्नों के उत्तर देने होंगे।			16
	1	रचना के आधार पर वाक्य भेद (4 अंक)	4	
	2	वाच्य (4 अंक)	4	
	3	पद परिचय (4 अंक)	4	
	4	रस (4 अंक)	4	
3	पाठ्यपुस्तक क्षितिज भाग - 2			
	अ	गद्य खंड	7	
	1	क्षितिज से निर्धारित पाठों में से गद्यांश के आधार पर विषय-वस्तु का ज्ञान बोध, अभिव्यक्ति आदि पर पाँच बहुविकल्पी प्रश्न पूछे जाएँगे। (1x5)	5	
	2	क्षितिज से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमताओं एवं अभिव्यक्ति का आकलन करने हेतु दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1x2)	2	
	ब	काव्य खंड	7	14
	1	क्षितिज से निर्धारित कविताओं में से काव्यांश के आधार पर पाँच बहुविकल्पी प्रश्न पूछे जाएँगे (1x5)	5	
	2	क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्यबोध परखने हेतु दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1x2)	2	
4	आंतरिक मूल्यांकन			10
	अ	सामयिक आकलन	2.5	
	ब	बहुविध आकलन	2.5	
	स	पोर्टफोलियो	2.5	
	द	श्रवण एवं वाचन	2.5	
		<b>कुल</b>		<b>50</b>

पाठ्यपुस्तक क्षितिज भाग -2 सत्र 2021-22 सत्र -1 में निम्नलिखित पाठ सम्मिलित किए गए हैं -

गद्य - खंड	काव्य - खंड
स्वयं प्रकाश - नेताजी का चश्मा	सूरदास - पद
रामवृक्ष बेनीपुरी - बालगोबिन भगत	तुलसीदास - राम - लक्ष्मण - परशुराम संवाद

परीक्षा भार विभाजन सत्र 2				
	विषयवस्तु		उप भार	कुलभार
1	पाठ्यपुस्तक क्षितिज भाग - 2 व पूरक पाठ्यपुस्तक कृतिका भाग - 2			20
	अ	गद्य खंड		
		क्षितिज से निर्धारित पाठों के आधार पर विषय-वस्तु का जान बोध, अभिव्यक्ति आदि पर चार प्रश्न पूछे जाएंगे। (2x4)	8	
	ब	काव्य खंड		
		क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्यबोध परखने हेतु तीन प्रश्न पूछे जाएंगे। (2x3)	6	
	स	पूरक पाठ्यपुस्तक कृतिका भाग - 2		
		कृतिका के निर्धारित पाठों पर आधारित दो प्रश्न पूछे जाएंगे। (3x2)	6	
2	लेखन			20
	अ	विभिन्न विषयों और संदर्भों पर विद्यार्थियों के तर्कसंगत विचार प्रकट करने की क्षमता को परखने के लिए संकेत बिंदुओं पर आधारित समसामयिक एवं व्यावहारिक जीवन से जुड़े हुए तीन विषयों में से किसी एक विषय पर लगभग 150 शब्दों में अनुच्छेद लेखन। (5x1)	5	
	ब	अभिव्यक्ति की क्षमता पर केन्द्रित औपचारिक अथवा अनौपचारिक विषयों में से किसी एक विषय पर लगभग 120 शब्दों में पत्र। (5x1)	5	
	स	विषय से संबंधित दो विज्ञापनों (प्रत्येक लगभग 50 शब्दों वाला) का लेखन। (2.5 अंक x2 प्रश्न) (विकल्प सहित)	5	
	द	संदेश लेखन (शुभकामना, पर्व-त्याहारों एवं विशेष अवसरों पर दिए जाने वाले दो संदेश) (प्रत्येक लगभग 40 शब्दों में) (2.5 अंक x2 प्रश्न) (विकल्प सहित)	5	
3	<b>आंतरिक मूल्यांकन</b>			10
	अ	सामयिक आकलन	2.5	
	ब	बहुविध आकलन	2.5	
	स	पोर्टफोलियो	2.5	
	द	श्रवण एवं वाचन	2.5	
	कुल			50

सत्र-2 2021-22 में निम्नलिखित पाठ सम्मिलित किए गए हैं -

पाठ्यपुस्तक क्षितिज भाग -2

काव्य - खंड

1. सूर्यकांत त्रिपाठी 'निराला' - 'उत्साह', 'अट नहीं रही है'
2. ऋतुराज - कन्यादान

गद्य - खंड

3. यशपाल - लखनवी अंदाज
4. सर्वेश्वर दयाल सक्सेना - मानवीय करुणा की दिव्य चमक

अनुपूरक पाठ्यपुस्तक कृतिका भाग -2

1. शिवपूजन सहाय - माता का अँचल
2. कमलेश्वर - जॉर्ज पंचम की नाक
3. मधु कांकरिया - साना - साना हाथ जोड़ि

**निर्धारित पुस्तकें :**

1. **क्षितिज, भाग-2**, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण
2. **कृतिका, भाग-2**, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण