

# SYLLABUS 2020-21

## CLASS - 9

### *Content*

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**Maths**

**Eng Lan.**

**Eng Lit.**

**Sanskrit**

**Hindi**

**Physics**

**Chemistry**

**Biology**

**Hist. Civics**

**Geography**

**Computer**

## Physics- 9

S.N.	Month	Topic	Sub Concept	Activity
1.	June	Ch.-1 : Measurements and experimentation	<ul style="list-style-type: none"> <li>- Various Unit Systems</li> <li>- Vernier Callipers</li> <li>- Screw gauge</li> <li>- Simple pendulum</li> </ul>	- Lab equipments to Understand
2.	June	Ch. - 1 : Contd Ch. - 2 : Motion in one dimension	<ul style="list-style-type: none"> <li>- Rest, Speed</li> <li>- Motion &amp; types</li> <li>- Graphs</li> <li>- Kinematic equation</li> </ul>	<ul style="list-style-type: none"> <li>- Free fall</li> <li>- Beam balance</li> <li>- Friction</li> <li>- Lab equipment</li> </ul>
3.	July	Ch. - 3 : Laws of motion Ch. - 4 : FLuid Mechanics	<ul style="list-style-type: none"> <li>- Force</li> <li>- Laws of motion</li> <li>- Gravity</li> </ul>	<ul style="list-style-type: none"> <li>- Marble ball experiment</li> <li>- Determination of density</li> </ul>
4.	Aug	Ch. - 4 : Contd Ch. - 5 : upthrust in fluids	<ul style="list-style-type: none"> <li>- Buoyancy</li> <li>- Relative density</li> <li>- Floatation</li> </ul>	<ul style="list-style-type: none"> <li>- Archimedes experiment</li> <li>- Density of Various materials</li> </ul>
5.	Sept	Ch. - 5 : Contd Ch. - 6 : Heat and energy	<ul style="list-style-type: none"> <li>- Ecosystem</li> <li>- Components of it</li> </ul>	- Chemicals Polluting environment
6.	Oct	Ch. - 7 : Relation of light	<ul style="list-style-type: none"> <li>- Laws of reflection</li> <li>- Types of mirrors</li> <li>- Ray diagrams</li> </ul>	- Mirror & types of images formed due to mirrors
7.	Nov.	Ch. - 8 : Propagation Sound waves	<ul style="list-style-type: none"> <li>- Types of Sound waves</li> <li>- Amplitude</li> <li>- Frequency</li> <li>- Wavelength</li> </ul>	<ul style="list-style-type: none"> <li>- Resonance tube experiment</li> <li>- Generation of echo</li> </ul>
8.	Dec.	Ch. - 9,10 : Current Electricity	- Cells	
9	Jan.	Magnetism	<ul style="list-style-type: none"> <li>- Components of Circuits</li> <li>- Potential difference</li> </ul>	

## Section - B

## Chemistry- 9

S.N.	Month	Topic	Sub Concept	Activity
1.	May	Ch.-1 : The language of Chemistry	<ul style="list-style-type: none"> <li>- Symbols (Introduction)</li> <li>- Valency (definition)</li> <li>- Mono, di, tri &amp; Tetra valent</li> <li>- Radicals</li> <li>- Compounds</li> <li>- Chemical equation</li> <li>- Relative atomic mass, R.M.M</li> <li>- Calculations &amp; % age Composition of compounds</li> </ul>	<ul style="list-style-type: none"> <li>- To show various</li> <li>- Compounds in lab and to calculate M.M of these</li> </ul>
2.	June	Ch. - 2 : Chemical changes and reactions	<ul style="list-style-type: none"> <li>- Type of Chemical changes</li> <li>- Direct</li> <li>- Decomposition</li> <li>- Displacement</li> <li>- Double decomposition</li> <li>- Energy changes in chemical changes</li> <li>- exothermic and endothermic reactions with examples</li> </ul>	<ul style="list-style-type: none"> <li>- A.M : Weight of Substance changes when it undergoes chemical change</li> <li>- To prove and air is essential for - conduction</li> </ul>
		Ch. -3 : Water	<ul style="list-style-type: none"> <li>- Introduction</li> <li>- Water as universal solvent</li> <li>- Solution as mix of solids in H<sub>2</sub>O saturated solw</li> <li>- Composition of Water</li> <li>- Chemical Properties of H<sub>2</sub>O</li> <li>- Effect of Temp on solubility</li> <li>- hydrated and anhydrous substance</li> <li>- Properties</li> <li>- Efflorescence</li> <li>- Deliquescence</li> <li>- Hygroscopy</li> <li>- Removal of Hardness</li> <li>- By Boiling</li> <li>- By addition of washing Soda</li> <li>- Drying &amp; Dehydrating agents</li> <li>- Soft and Hard water</li> <li>- Advantage &amp; disadvantage</li> <li>- Types and Cause of Hardness</li> </ul>	<ul style="list-style-type: none"> <li>- Hard Water formation and Scum formation with soap</li> <li>- To show impurities are present in H<sub>2</sub>O</li> <li>- Effect of pressure on Soda water</li> </ul>

## Chemistry- 9

S.N.	Month	Topic	Sub Concept	Activity
3.	July	Ch. - 4 : Atomic Structure and Chemical Bonding	<ul style="list-style-type: none"> <li>- Definition of atom and introduction</li> <li>- Constituent of atoms</li> <li>- Mass and atomic number</li> <li>- Octet and Duplet rules as <math>2n^2</math></li> <li>- Isotopes</li> <li>- Electrovalent Covalent &amp; Chemical Bonding</li> <li>- Definition</li> <li>- Atomic orbit structure</li> <li>- Example</li> </ul>	<ul style="list-style-type: none"> <li>- Preparation of Saturated solution</li> <li>- Atomic model pre-preparation.</li> </ul>
4.	Aug	Ch. - 5 : Periodic Table	<ul style="list-style-type: none"> <li>- Dobereiner's Triads</li> <li>- Newland's law</li> <li>- Mendeleev's contributions</li> <li>- Modern periodic law</li> <li>- Discovery of Atomic 'no' &amp; modern periodic table</li> <li>- 1 to 18 groups</li> <li>- 1-7 periods</li> <li>- Alkali metals (1<sup>st</sup> group)</li> <li>- Halogen (17 group)</li> <li>- Zero group (18gp) To show</li> </ul>	<ul style="list-style-type: none"> <li>- Different elements in periodic table</li> </ul>
5.	Sept	Ch. -6 : Study of 1 <sup>st</sup> element (Hydrogen)	<ul style="list-style-type: none"> <li>- Position of 'H' in periodic Table</li> <li>- Occurrence of hydrogen</li> <li>- General method of preparation of <math>H_2</math></li> <li>- Laboratory method for preparation of <math>H_2</math></li> <li>- Industrial method for preparation of <math>H_2</math></li> <li>- Oxidation &amp; Reduction</li> </ul>	<ul style="list-style-type: none"> <li>- Rxn of metals with HCL</li> <li>- preparation of <math>H_2</math> gas by Zn and <math>H_2SO_4</math></li> </ul>

## Chemistry- 9

S.N.	Month	Topic	Sub Concept	Activity
6.	Oct	Ch. - 7 : Study of Gas laws	<ul style="list-style-type: none"> <li>- Difference of solid and liquids</li> <li>- Characteristics of gases if kinetic theory of matter</li> <li>- Variable gas laws</li> <li>- Boyle's &amp;</li> <li>- Charlies law</li> <li>- Concept of temp and pressure</li> <li>- Numericals <math>2\text{AgNO}_3 \rightarrow 2\text{Ag} + 2\text{NO}_2 + \text{O}_2</math></li> </ul>	<ul style="list-style-type: none"> <li>- Numericals from concise / Goyal book</li> <li>- Ag No 3 on heating simply changes to new product temporO2</li> </ul>
7.	Oct		<b>Exams</b>	
8.	Oct-Nov	Ch. - 7 : Continue	<ul style="list-style-type: none"> <li>- Concept of gas equation &amp; numericals</li> </ul>	<ul style="list-style-type: none"> <li>- Odour of <math>\text{H}_2\text{S}</math> (Rotten egg smell)</li> </ul>
		Ch. - 8 : Atmosphere pollution	<ul style="list-style-type: none"> <li>- Introduction</li> <li>- Acid rain</li> <li>- Global warming</li> <li>- Ozone depletion</li> <li>- Oxygen Cycle</li> </ul>	<ul style="list-style-type: none"> <li>- ammonia smell</li> <li>- <math>\text{NO}_2</math> test in atmo sphere</li> </ul>
9.	Dec	Ch. - 9 : Practical Chemistry	<ul style="list-style-type: none"> <li>- <math>\text{CO}_2</math> Cycle</li> <li>- Detection of gases</li> </ul>	<ul style="list-style-type: none"> <li>- Test for</li> </ul>
			<ul style="list-style-type: none"> <li>- Identification of Compounds by dry heating</li> <li>- Addition of dilute <math>\text{H}_2\text{SO}_4</math> of unknown Substance</li> <li>- Flame test for identification of metallic iron</li> <li>- Datermination of % age composition of mixture</li> </ul>	<ul style="list-style-type: none"> <li>- <math>\text{SO}_2</math></li> <li>- <math>\text{NO}_2</math></li> <li>- <math>\text{Cl}_2</math></li> <li>- <math>\text{NH}_3</math></li> <li>- <math>\text{CuCO}_3</math></li> <li>- Washing soda and baking soda test</li> </ul>
10.	Jan/Feb	Revision		

**Paper Style – Chemistry- 9**

U.T.- I (Ch. : - 1,2 ) (50 Marks)

SA-1 (Ch. : - 1, 2, 3,4,5) (80 Marks)

**Section I (All questionss are compulsory)**

1. Mcq
2. Blanks
3. Equation
4. Reason type Q/A
5. Converesion type question

**Section II (Attempt any 4 question out of Six)**

- a. Numbers
- b. Formula derivation, & Valency
- c. Chemical equation & Balancing
- d. Long type Q/A
- e. Tabular from Q/A

**(CH- 3, 4, 5)**

U.T. - 2 (50 Marks)

**Section I (Compulsasry)**

1. Chemical equation
2. MCQ
3. Blanks
4. Match Column
5. Choose odd one
6. Short/Reason type Q/A
7. Balancing eqn

**Section II**

- Q.2
- a. Definition
  - b. Formula Derivation
  - c. Numericals
  3. Long type Q/A
  4. Tabular form Q/A
  5. Indentification of particular substance based on practical test
  6. Complete equations

**Note :** Style and content of questions may vary according to chapter and its content.

**SA-2** (1, 2, 3, , 5, 6, 7, 8, 9) (80 Marks)

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## Hindi- 9

S.N.	Month	Topic	Sub Concept	Activity
१.	जुन	मात्राओं का अभ्यास  १. साखी - P  निबंध / पत्र  १. बात अठनी की (L)  २. काकी-L  व्यावहारिक व्याकरण	- दोहे का गायन  - भ्रष्टाचार की जानकारी  - मातृवियोग पीड़ा	- दोहे का सस्वर वाचन  पात्र अभिनय  - माँ शब्द पर विचार-विमर्श
२.	जुलाई	२. गिराधिर की कुंडलियाँ - (P)  समानार्थी, विलोम, मुहावरे  निबंध	नीतिसंबंधित जानकारी  शब्दों का ज्ञान	- कुंडलियों का गायन  शब्दों का जाल
३.	अगस्त	३. महायज्ञ का पुरस्कार (L)  ३. स्वर्ग बना सकते हैं (P)	- मानव सेवा  समानता का भाव	- वाद- विवाद  कविता लेखन
४.	सितंबर	४. नेता जी का चश्मा (L)  ४. वह जन्मभूमि मेरी (P)  ५. मेघ आए (P)  निबंध / पत्र	- देशभक्ति  - मातृभूमि - प्रेम  - प्रकृति वर्णन	- नेताजी का चित्र बनाना  कविता लेखन  - बारिश का चित्र
५.	अक्तूबर	५. अपना-अपना भाग्य (L)	- भाग्य और पुरुषार्थ	- लेखन कार्य
६.	नवे.	६. बड़े घर की बेटी (L)	एकल परिवार की व्याख्या	- पारिवारिक विषयों पर चर्चा
७.	डिसेम्बर	६. सूर के पद (P)  व्याकरण	वात्सल्य वर्णन	- पदों का गायन
८.	जन/फर.	पाठों का अभ्यास		



## Paper Style - Hindi - 9

### Unit Test -1 , Total Marks - 50

1. निबंध - 15
2. पत्र - 07
3. अपठित गद्यांश - 10
4. व्याकरण - 18

### SA- 1 (80 M)

#### Lesson- 1,2 P-1,2

1. निबंध - 15
2. पत्र - 07
3. अवतरण - 40
4. व्याकरण - 08
5. अपठित - 10

### Unit Test - 2 (50 M)

#### Lesson- 1,2,3,4 P-1,2,3,4

1. निबंध - 15
2. पत्र - 07
3. अवतरण - 20
4. व्याकरण - 08

### SA - 2 (80 M)

#### Lesson- 1 to 6 P- 1 to 6

1. निबंध - 15
2. पत्र - 07
3. अवतरण - 40
4. व्याकरण - 08
5. अपठित - 10

## Maths-9

S.N.	Month	Topic	SubConcept	Activity
1.	June	<p>Ch.- 1: Rational and irrational Numbers</p> <p>Ch.-2: Compound interest</p> <p>Ch.-3 : Expansions</p> <p>Ch.-14: Statistics, Introduction, Data and frequency distribution</p>	<p>1. Rational Numbers, Operations on Rational Numbers Properties of Rational Numbers</p> <p>2. Irrational Numbers, Operations on irrational Numbers and Properties of irrational Numbers</p> <p>3. Surds and Rationalization of Surds</p> <p>- Important terms, To find C.I. When interest is compounded annually, semi-annually &amp; quarterly Growth depreciation</p> <p>1. Expansions <math>(a+b)^2</math>, <math>(a+b+c)^2</math>, <math>(a+b)^3</math>, <math>(x+a)(x+b)</math></p> <p>- Data and Related Terms, collection of data and Presentation of data</p>	<p>- Quiz</p> <p>- Group Discussion</p> <p>- Expansion of identity <math>(a+b+c)^2</math></p> <p>- Quiz</p>
2.	July	<p>Ch.-4 : Factorization</p> <p>Ch. - 5 : Linear Equations and Simultaneous linear Equations</p> <p>Ch.- 6: Indices/Exponents 7: Logarithms</p>	<p>- Factorization by taking out common factor, by Grouping, of trinomials (By Splitting the middle term)</p> <p>- Linear Equations and Simultaneous linear Equations</p> <p>a) Solving algebraically b) Solving simple problems based on these by framing appropriate formulae</p> <p>- Law of Indices</p> <p>- Logarithmic forms, exponential form : interchanging laws of Logarithms and its use</p> <p><b>(UT-1) Exams</b></p>	<p>- Group Discussion</p> <p>- Quiz</p> <p>- Quiz</p>

3.	Aug.	Ch.-20:CoordinateGeometry	- Cartesian system & related terms, plotting of points Graphs of linear equations, solving simultaneous linear Equations	-Graphs
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S.N.	Month	Topic	SubConcept	Activity
		Ch.-8:Triangles  Ch.-9:Mid-Point-and intercept Theorem	- Triangles, Congruence of triangles, inequalities, results on isosceles triangles - Mid-Point Theorem & its converse, Equal intercept Theorem proof & Simple application (Round-I) Exam	- Practical Activities  - Group Discussion
4.	Sep.	Ch.-10 Pythagoras Theorem  Ch.-15 Mean Median and Frequency Distribution	- Proof & Simple application of Pythagoras Theorem & its converse - Find median of an ungrouped data. Find mean for ungrouped Frequency distribution by 1. Direct method 2. Assumed mean method	- Group Discussion  - Collect the data from daily life and calculate its mean
5.	Oct.	Ch.-19:Trigonometrical Ratios,  Ch.-11:Rectilinear Figures  Ch.-13:Circle	- Trigonometric Ratios, T-ratios of $0^\circ, 30^\circ, 45^\circ, 60^\circ$ & $90^\circ$ , T-Ratios of complementary angles, Simple 2-D problems - Quadrilateral & related terms, Results on parallelogram, rectangles, rhombus, square, construction of quadrilaterals - Terms and facts related to Circles <b>(SA - 1) Exams</b>	- Prepare a table for different angles  - Constructions  - Group Activity Quiz
6.	Nov	Ch.-12:Area Theorems  Ch.-16:Area of plane fig	- Fundamental concepts, Area of polygon regions, axioms - Perimeter & Area	- Theorems Explanation

7.	Dec	Ch.-16:AreaofplaneFig	-Perimeter&Areaof(i)Triangles (ii)DifferenttypespfQuadrilaterals	-GroupActivity
		Ch.- 17:CircleCircumference&Area ofCircle Ch.- 18:Surfaceareaandvolumeof3 Dsolids	- Circumference&AreaofC ircles - Surfaceareaandvolumeof (i) Cube, (ii) Cuboid (iii) Cross- Section	- GroupActivity  - GroupActivity
8. 9. 10	Jan. Feb. March	<b>Revision</b> <b>Revision</b> <b>Revision</b>	-( UT – 2 )Exams  - ( SA – 2 ) Exams	

## ***Syllabus–Maths-9***

Round-I (Ch.: -1,2,3,4,5,14) (50Marks)

Round-II (Ch.: -1to10,14,15, 20) (80Marks)

Round-III(Ch.: -1to 15,19, 20) (50Marks)

Round-IV (WholeSyllabus) (80Marks)

## ***PaperStyle–Maths-9***

### **Paperstyle:**

#### **UT1&2**

Thepaperwillbedividedintotwosections,section1(20marks),section2(30marks).

**SectionA:**Itwillconsistofcompulsory2questions.20Marks(2x10=20)

**SectionB:**Studentswillberequiredtoanswer3 outof5questions.30Marks(3x10=30)

#### **SA- I & II**

Thepaperwillbedividedintotwosections,section1(40marks),section2(40marks).

**SectionA:**Itwillconsistofcompulsory4questions.Marks40(4x10=40)

**SectionB:**Studentswillberequiredtoanswer4outof7questions.Marks40(4x10=40)

**Note:**TypesofQuestionsaresubjecttochangeforallthepaperstyle

## STD 9 English Language

SR.NO	Month	Topic	SUBTOPIC	Activity
1.	June	Composition- ( Narrative)  Letter writing ( Personal)  Practice paper 1,2&3  Gram-Interchange of sentences. Articles, verbs	Personal experience, dialogue and language  Address, date, Greetings, body of the letter, salutation, subscription  Types of sentences, A, an, the Join sentences without using and, but, so	Share your real shocking experience  Format of Letter  Discussion, Rules Live example
2.	July	Practice paper 4&5 Comprehension  Letter writing ( formal)  Composition (descriptive) Agreement of verb   Gram- Tenses  Revision UT-1	Interesting incident, story, meaning clarity, rules for transformation Two add,content salutation,subscription Topic clarity,description of person or object  Relation with noun, location or place  Oral discussion	Write meanings of the given word  format  Declamation  Live examples  worksheet
3.	August	Practice paper- 6&7 Comprehension ex  Notice writing  Composition- (argumentative)  Letter writing (Application)  Gram- Prepositions, Direct/ Indirect, Active/passive	Instructions, interchange,meaning,clarity  Heading, date, content,  Topic clarity,strong views and opinions  Two address, Date salutation, subject, concluding lines, body  Transformation, conditions applied, instructions  Practice EX	50 word box format  Format chart  Debate  Rules chart  worksheet
4.	September	Practice Paper 8&9 Comprehension ex  Letter to the editor  Email writing  Composition- (story based)  Gram- Transformation of Sentences  SA-I Revision	As per instructions, appropriate words, word meaning, example  Two add, date, salutation, content,concluding lines lds, subject, content, subscription  Imagination, clarity, connection  Interchange of words, expression  worksheet	take out imp points from passage 50 word box  format  practice format  Critical thinking  Rules chart  Practice exercise
5.	October	<b>SA-1 Exam</b>		
6.	November	Letter ( invitation)  Comprehension ex	Impressive tone, wedding calls, public celebration  Meanings, clarity	Live example( invitation card)  Ques/ans

		Letter ( newspaper editor)	Two address, subject, body, concluding lines, subscription	Format
		Gram- Transformation	Topic given, interchange of sentences	Rules and examples
7.	December	Practice Paper- 12 & 13	Transformation of Sentences , Word Meaning,	Find meanings of passage words
		Comprehension	Clarity, thoughts Exercise , clarity of passage, word meaning	Summarize given passage
		Letter ( to newspaper)		Format
		Gram-Join the sentence without using and, but ,so	Add, sub, body, concluding lines, subscription Connection, clear meaning	Rules chart
8.	January	Practice Paper- 14 & 15	Solve Exercise	Find meanings of passage words
		Comprehension	construction of plot and theme	
		Composition ( descriptive & narrative)		Critical thinking (frame story)
		Letter ( invitation)	Content, salutation, reason to invite, venue, time	
		Gram- Active/passive, Degrees	Change tenses, comparison of subject, person, place or object	Live example (marriage card)
				Rule chart

#### Unit test -1 & 2 (50M)

- |                     |            |       |
|---------------------|------------|-------|
| 1. Composition      | 1 out of 3 | - 10m |
| 2. Letters          |            | - 10m |
| 3. (a) Email        |            | - 5m  |
| (b) Notice          |            | - 5m  |
| 4. Grammar Exercise |            | - 20m |

#### Paper Style – 9 (as per Board)

#### SA I ANDSA II (As per board pattern)

- |     |  |      |
|-----|--|------|
| Q.1 | Composition (300 – 350 words) anyone out of five                           | 80m  |
| Q.2 | Write any one letter out of two ( formal/informal)                         | 20m  |
| Q.3 | (a) Notice   | 10m  |
|     | (b) Email writing  | 5m   |
| Q.4 | Comprehension  | 5m   |
| Q.5 | Grammar  | 20m  |
|     | (i) Fill in the blanks with the correct form of the word given in brackets | - 4m |
|     | (ii) Fill in the blanks with appropriate words                             | - 4m |
|     | (iii) Join the sentences without using and, but or so                      | - 4m |
|     | (iv) Change sentences as per instructions given in bracket.                | - 8m |

**NOTE: Type of Questions are subject to change for all the paperstyle.**

# STD 9 History Civics

## Civics

Sr. No.	Month	Lesson	Sub Topic	Activity
CH-1	June	Our Constitution	Meaning of the Term Constitution, The Constituent Assembly(Its Composition, Status of the Constituent Assembly- A Mini India, The Constituent Assembly at Work) The Drafting Committee ( The Passage of the Constitution) Date of Enforcement and its Significance.	Brainstorming Explanation
CH-2		The Salient Features of our constitution	Single Citizenship, One Person One Vote, Fundamental Rights, Fundamental Duties Directive Principles of State Policy (Meaning)	Brainstorming Discussion Explanation
CH-3		Fundamental Rights and Duties.	Meaning of the term Rights, Characteristic features of Fundamental Rights, Three common restrictions on Fundamental Rights, Classification of Fundamental Rights, Critical Assessment and Significance of Fundamental Rights, Fundamental Duties Article 51-A Significance of Duties.	Brainstorming Discussion Explanation
CH-4	July	Directive Principles of State Policy	Meaning and purpose of Directive Principles Nature of Directive Principles, Difference Between the Fundamental Rights and Directive Principles Classification of Directive Principles, Criticism and Importance of Directive Principles.	Discussion Explanation Discussion
CH-5	Aug	Elections	Elections: Meaning and Significance, Kinds of Elections (Direct and Indirect), Constituency - Its Meaning, Kinds and Delimitation, The Election Commission, Powers and Functions of the Election Commission.	Brainstorming Discussion Explanation Conducting Elections in Class
CH-6	Sep	Local Self Government (Rural)	Meaning of term Local Self - Government, Distinction between local Govt. and Local Self- Govt., Importance of the local self - Govt. in The Indian Setup, Growth of local self Institutions (Rural), The Three - Tier System of Panchayati Raj, Sources of Income of Village Panchayat, Panchayat Samiti, Zilla Parishad, Defects in the working of Panchayati Raj Institution.	Brainstorming Discussion Explanation
CH-7		Local Self- Government (Urban)	Meaning, Urban Local Self - Institutions, Municipal Corporation( Nagar Nigams) Its Structure, Organization and Composition, Municipal Committee, Town Area Committee, Notified Area Committee, Cantonment Board, Improvement Trust, Port Trust.	Brainstorming Discussion Explanation

## STD 9 History

SR. NO	Month	Topic	Sub Topic	Activity
CH-1	June	The Harappan Civilization	The Beginning of the civilization Chief Features of the Harappan Civilization, Lothal Dockyard, End of the Indus valley Civilization	Brainstorming Explanation
CH-2	July	The vedic - Period	The coming of Indo - Aryan Archaeological Sources Iron and Pottery Early Vedic Age Social, Economic and Political life ,later Vedic Age, Changes in society and political Life The impact of Aryan Civilization.	Brainstorming Discussion Explanation
CH-3		Rise of Jainism and Buddhism	Jainism and Buddhism (the birth of new religious sects) Life of Mahavira, Main beliefs and teachings of Mahavira Impact of Jainism Life of Buddha, the great, Renunciation, Enlightenment Teachings of Lord Buddha, eight fold paths.	Brainstorming Explanation
CH-4	Aug	The Mauryan Empire	Ashoka, The Great, Extent of Ashoka's Empire Sources of Information about the Mauryan Administration, Nature of Government and State Under the Mauryas, Dhamma and Spread of Buddhism, Causes of downfall of the Mauryan Empire.	Brainstorming Discussion Explanation
CH-5	Sep	The Sangam Age	The Sangam Literature, Inscription, Society and Economy, Economic Life, Religion, Education and Literature, Recreation	Brainstorming Discussion Explanation
CH-6		The Age of the Guptas	The Imperial age of the Guptas Chandragupta-1, Samudragupta-1, Chandragupta-2 The last days of the Gupta Empire Golden age of Indian Culture. Art and Architecture, The Gupta Administration.	Brainstorming Discussion Explanation
CH-7(a)	Nov	Medieval India (The Cholas)	The three kingdoms of South India The Cholas (846 AD-1279 AD) The Founder of Chola Kingdom, Downfall of Chola's The Chola Polity The Chola Society and Culture	Brainstorming Discussion Explanation
CH-7(b)	Dec	The Delhi Sultanate	Qutubuddin Aibak (AD1206-1210) Literary sources about the history of Delhi Sultanate, Polity or the Political Structure under the Delhi Sultanate, Society under Delhi Sultanate, Development of Indo- Islamic art and architecture, Buildings under Delhi Sultanate.	Brainstorming Discussion Explanation



Sr. No.	Month	Lesson	Sub - Topic	Activities
CH-8(a)	Dec	The Mughal Empire	India on the eve of Babur's Invasion Chronological order of the Mughals Causes for the decline of the Mughal Empire Impact of Mughals on Religion, Art, Architecture and Literature.	Brainstorming Discussion Explanation
CH-8(b)		Composite Culture	Sufism and Bhakti Movements Identical Principle of Sufism and Bhakti Movement The Main Bhakti Saints Christianity in India.	Brainstorming Discussion Explanation
CH-9 (a)	Jan	The Modern AGE in Europe (Renaissance)	Meaning of Renaissance and its features Causes of Renaissance Impact of Renaissance on Art Painting, Sculpture Impact of Science	Brainstorming Discussion Explanation
CH-9 (b)		The Reformation	Causes leading to Reformation Impact of Reformation of Europe major impact of Mercantilism.	Brainstorming Discussion Explanation.
CH-9 (c)	Feb	Industrial Revolution	Meaning of industrial Revolution Industrial revolution in other countries Industrial revolution in England impact of Industrial Revolution	Brainstorming Discussion Explanation

## Syllabus

### Unit Test-1 (20 Marks)

Ch. 1&2 (Civics) 1 (History)

### Unit Test-2 (20 Marks)

Ch. 5 (Civics) 6 & 7 (a) (History)

### SA-1 (80 Marks)

Ch. 1,2,3 & 4 (Civics) 1,2,3,4,5 (History)

### SA-2 (80 Marks) :- Whole Book

## Paper Style

### Paper Style for Unit Test -1 & 2

Q.1 Short Answer Questions (10 question)	Civics	10m
Q2. Short Answer Questions (10 question)	History	20m
Q.3 Answer the question in detail (any 2)	History and Civics	20m

a

## Maths- 9

S.N.	Month	Topic	Sub Concept	Activity
1.	June	<p>Ch. - 1 : Rational and irrational Numbers</p> <p>Ch. - 2 : Compound interest</p> <p>Ch. - 3 : Expansions</p> <p>Ch. - 14 : Statistics, Introduction, Data and frequency distribution</p>	<p>1. Rational Numbers, Operations on Rational Numbers Properties of Rational Numbers</p> <p>2. Irrational Numbers, Operations on irrational Numbers and Properties of irrational Numbers</p> <p>3. Surds and Rationalization of Surds</p> <p>- Important terms, To find C.I. When interest is compounded annually, semi-annually &amp; quarterly Growth depreciation</p> <p>1. Expansions <math>(a \pm b)^2</math>, <math>(a+b+c)^2</math>  <math>(a \pm b)^3</math>  <math>(x \pm a)(x \pm b)</math></p> <p>- Data and Related Terms, collection of data and Presentation of data</p>	<p>- Quiz</p> <p>- Group Discussion</p> <p>- Expansion of identity <math>(a+b+c)^2</math></p> <p>- Quiz</p>
2.	July	<p>Ch. - 4 : Factorization</p> <p>Ch. - 5 : Linear Equations and Simultaneous linear Equations</p> <p>Ch. - 6 : Indices / Exponents</p> <p>Ch. - 7 : Logarithms</p>	<p>- Factorization by taking out common factor, by Grouping, of trinomials          (By Splitting the middle term)</p> <p>- Linear Equations and Simultaneous linear Equations</p> <p>a) Solving algebraically          b) Solving simple problems based on these by framing appropriate formulae</p> <p>- Law of Indices</p> <p>- Logarithmic forms, exponential form : inter changing laws of Logarithms and its use</p> <p><b>(UT - 1 ) Exams</b></p>	<p>- Group Discussion</p> <p>- Quiz</p> <p>- Quiz</p>
3.	Aug.	Ch. - 20 : Coordinate Geometry	- Cartesian system & related terms, plotting of points Graphs of linear equations, solving simultaneous linear Equations	- Graphs

## Maths- 9

S.N.	Month	Topic	Sub Concept	Activity
		Ch. - 8 : Triangles  Ch. - 9 : Mid-Point-and intercept Theorem	- Triangles, Congruence of triangles Inequalities, results on isosceles triangles  - Mid-Point Theorem & its converse, Equal intercept Theorem proof & Simple application (Round-I)Exam	- Practical Activities  - Group Discussion
4.	Sep.	Ch. - 10 Pythagoras Theorem  Ch. -15 Mean Median and Frequency Distribution	- Proof & Simple application of Pythagoras Thorem & its converse  - Find median of an ungrouped data. Find mean for ungrouped Frequency distribution by 1. Direct method 2. Assumed mean method	- Group Discussion  - Collect the data from daily life and calculate its mean
5.	Oct.	Ch. -19 : Trigonometrical Ratios,  Ch. -11 : Rectilinear Figures  Ch. - 13 : Circle	- Trigonometric Ratios, T-ratios of $0^\circ, 30^\circ, 45^\circ, 60^\circ$ & $90^\circ$ , T-Ratios of complementary angles, Simple 2-D problems  - Quadrilateral & related terms, Results on parallelogram, rectangles, rhombus, square, construction of quadrilaterals  - Terms and facts related to Circles  <b>(SA - 1 ) Exams</b>	- Prepare a table for different angles  - Constructions  - Group Activity Quiz
6.	Nov	Ch. -12 : Area Theorems  Ch. -16 : Area of plane fig	- Fundamental concepts, Area of polygon regions, axioms  - Perimeter & Area	- Theorems Explanation
7.	Dec	Ch. -16 : Area of plane Fig	- Perimeter & Area of (i) Triangles (ii) Different types of Quadrilaterals	- Group Activity



## STD 9 GEOGRAPHY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	<p>L-1 The Earth as a planet</p> <p>L-2 Geographic grid</p> <p>L-3 Rotation and Revolution</p> <p>L-4 Structure of the earth</p>	<p>The earth: A unique planet, shape of the earth, size of the earth, Earth- The living planet.</p> <p>Locating places- The grid system, parallels of latitude, prime meridian, longitude and time , local time and standard time, Indian standard time, time zones, international date line, The great circle and the small circle.</p> <p>Rotation, Revolution and its effects, effects of the tilted Axis on day and night, The changing seasons A solstices and equinoxes.</p>	<p>Collect information about the earth.</p> <p>Make charts of inclination of the earth revolution of the earth.</p>
2.	Jul	<p>L-5 Landforms of the earth</p> <p>L-6 Rocks</p> <p>L-7 Volcanoes</p> <p>L-8 Earthquakes</p>	<p>The core, The mantle, lithosphere and the plate tectonics, comparative study of crust, mantle and core.</p> <p>Landforms, mountains, plateaus, plains</p> <p>Rocks and minerals, Type of Rocks, Rocks cycle Economics significance of rocks</p> <p>Type of volcanoes, products of volcanic eruptions, world distribution of volcanoes, effect of volcanic activity</p> <p>Earthquakes , causes of earthquakes, Hazardous effects of earthquakes, constructive effects of earthquakes, distribution of earthquakes</p>	<p>Make charts and diagrams of the interior of the earth and collect information about tectonic force.</p> <p>Make modal of land forms of the earth</p> <p>Collect pictures of different rocks and try to recognize them from their physical properties.</p> <p>Make model of different types of volcanoes.</p> <p>Collect information about some major earthquakes and discuss in class.</p>
3.	Aug	L-9 Weathering and Denudation	<p>The changing landscape, effects of weathering, gradation and its agents, land forms made by winds work of river.</p> <p>Hydrosphere, The oceans,</p>	<p>Collect information about different types of weathering and discuss in class.</p> <p>Collect information about different major oceans of the</p>

		<p>L-10 Hydrosphere, Tides and ocean currents</p> <p>L-11 The Atmosphere</p> <p>L-12 Isolation</p>	<p>importance of oceans The distribution of land and water, movements in the oceans, effects of ocean currents.</p> <p>Earth's atmosphere, Composition of the atmosphere, structure of the atmosphere. The Ozone layer The Green house effect and Global warming Isolation, Factors affecting distribution of pressure, Factors affecting distribution of pressure Major pressure belts of the world winds.</p>	<p>world and discuss with class.</p> <p>Find out the information about the effect of El Nino on global as weather system.</p> <p>Make a figure of heat budget.</p>
4	Sep	<p>L-13 Pressure Belts and types of winds</p> <p>L-14 Humidity</p> <p>L-15 Pollution &amp; its sources</p> <p>L-16 Effect of Pollution</p>	<p>Atmospheric pressure, Measurement of Atmospheric pressure Factor affecting distribution of pressure Major pressure belts of world winds. Humidity, Precipitation, condensation, Types of rainfall, measurement of rainfall</p> <p>Sources of pollution- Air pollution, water pollution , soli pollution, sources of noise pollution, Radiation pollution</p>	<p>On outline map of the world, mark with arrows and names the various tropical cyclone. Collect information about different types of precipitation and discuss in class.</p> <p>Find out the percentage of pollutants released into the air by automobiles. Do you think</p> <p>introduction of CNG in some of the cities has been helpful in reducing pollution levels? Discuss in class</p>
5	Oct		SA1- Exam	
6	Nov	L-17 Preventive measures of pollution	Effects of Air, water, soil, Radiation and noise pollution Agriculture	<p>Class discussion on measures of pollution</p> <p>Map work</p> <p>Map work</p>
7	Dec	<p>L-18 Natural Regions of the world-I</p> <p>L-19 Natural</p>	Temperate Grassland, Tundra Region Tropical Grassland-Vegetation , Animal life and Human Adaptation	Map work

		Regions of the world-II  L-20 Natural Regions of the world-III		
8	Jan		Revision	
9	Feb		Pre – Boards	

**Syllabus:**

Round 1: Ch 1, 2, 3, 4

Round 2: Ch 1 to 12

Round 3- Ch 13 to 16

Round 4- Whole Syllabus

**Paper Style - 9**

**Part-I (30 marks)**

Attempt all questions from this part

Q1 Will consist of a questions based on map. 10 marks

Q2 will consist of short answer questions from the syllabus. 20 marks

**Part-II (50 marks)**

Q3 Candidates will require choosing any five questions out of nine question. (Q3 to Q11)

**Note: Type of Questions are subject to change for all the Paper Styles.**



## STD 9 BIOLOGY

SR.No.	Month	Topic	SUBTOPIC	Activity
1.	June	Ch.1- Introduction to Biology  Ch.2-The Cell  Ch.3-The tissues	1. Branches of Biology  1. Structure of Cell 2. Cell theory 3. Cell organelles 4. Prokaryotic & Eukaryotic cell  1. Plant tissue- Meristematic, Permanent, Protective. 2. Animal Tissue- Epithelial, Connective, Muscular, Nervous.	Self -study  To look at the plant cell & animal cell.  To study the slides of animal & Plant tissues.
2.	July	Ch.10-Nutrition  Ch.11- Digestive System  Ch.12- Skeleton- Movement and Locomotion	1. Classes of food substances 2. Balanced Diet 3. Malnutrition & Deficiency diseases  1. Digestive System 2. The teeth- Dentition, Structure of tooth. 3. Process of digestion 4. Certain Experiments on Digestion  1. Skeleton and its function 2. Human Skeleton	Tests for the presence of carbohydrates, proteins and fats in food substances.  Study the model of digestive system.  Study the model of human skeleton system
3.	Aug	Ch. 12 continues  Ch.4-The Flower  Ch.5-Pollination and Fertilization	3. Joints 4. Muscles  1. Structure and functions of various parts of a flower 2. Placentation 3. Inflorescence  1. Pollination 2. Self-pollination 3. Cross pollination 4. Agents of Pollination 5. Fertilization	-  To study different parts of flowers  To study the structure of pollen grain
5.	Sep	Ch. 6 Seeds – Structure and germination  Ch.13-Structure and Function of Skin  Ch.7- Respiration in plants	1. Structure of a seed 2. Types of seeds 3. Germination  4. Types of germination  1. Function, structure and derivatives of skin 2. Role of skin in heat regulation 1. Types of respiration 2. Respiration in plant 3. Experiments on respiration	Study the different types of seeds & their germination  Group discussion  Study the structure of stomata

5.	Oct	<b>SA-I exam</b>		
6.	Nov	<p>Ch.14- Respiratory system</p> <p>Ch.09- Economic Importance of Bacteria and Fungi</p> <p>Ch.19-Waste generation and Management</p>	<p>1. Respiratory system in Human</p> <p>1. Useful &amp; Harmful roles of Bacteria &amp; Fungi 2. Preservation of food</p> <p>1.Types of Waste 2. Management of waste 3. Waste Prevention</p>	<p>Study the model of respiratory system</p> <p>Group discussion</p> <p>Self - study</p>
7.	Dec	<p>Ch.8-Five Kingdom Classification</p> <p>Ch.15- Hygiene</p> <p>Ch.16 – Diseases: Cause and control</p> <p>Ch.17- Aids to Health</p> <p>Ch. 18- Health Organizations</p>	<p>1. Five kingdom classification 2. Kingdom- Monera, Protista, Fungi, Plant, Animal</p> <p>1.Personal &amp; Public Hygiene 2.Control of vectors and water borne diseases.</p> <p>1.Communicable &amp; Non- communicable diseases</p> <p>1. Immunity 2. Vaccination and Immunization</p> <p>1. RED Cross 2. WHO</p>	<p>Study of different plant &amp; animal Specimens</p> <p>Self - study</p> <p>Group discussion</p>

## **Syllabus**

**UT-1** (50 marks) -Ch : 1,2,3,10,11

**SA-1** (80 marks) -Ch : 4,5,6,7,12,13

**UT- 2** (50 marks) - 9,13,14,19

**SA- 2** (80 Marks) - Whole syllabus

## **Paper Pattern for all Round:-**

### **SECTION-A (Attempt all questions)**

(Objectives Type Questions)

- ❖ Name the following
- ❖ Give scientific terms
- ❖ Fill in the blanks
- ❖ True or False
- ❖ Odd out & give category
- ❖ State function
- ❖ Mention location
- ❖ Define terms
- ❖ Differentiate between
- ❖ MCQ

### **SECTION-B**

(Descriptive type Questions)

- ❖ Diagram base question
- ❖ Draw & labeled diagram
- ❖ Experiment set up base question
- ❖ Give scientific reasons
- ❖ Write short note on
- ❖ Differentiate between
- ❖ Describe process

## **Paper Pattern for all Rounds:-**

### **SECTION-A (40 Marks)**

**(Attempt all questions)**

(Objectives Type Questions)

### **SECTION-B (40 Marks) [(5+5) ×4]**

**(Attempt any four questions from six questions)**

(Descriptive type Questions)

Each Question has two sub parts like (a) & (b).

Each question shall carry 10 marks (5+5)