

SYLLABUS 2019-20

CLASS - 9

Content

Eng. Lang.

Eng. Lit.

Maths.

Physics

Chemistry

Biology

Hist. Civics

Geography

Hindi

Computer

Eng Lit - 9

S.N.	Month	Topic	Sub Concept	Activity
1	June	Poem-1 The Heart of the Tree Drama- Mof V (Act I) Revision	- Brings, rain, protect soil erosion, beauty, shelter for birds and animals - Intro of the characters, sad Antonio, Bassanio's desire, casket game of fortune	- Project- How can Trees save the earth from Global warming and Climate change? Role Play
2	July	Story 2 The Old man at the Bridge Poem 2 The Cold Within Drama - M of V Act -III Sc-1	- Narrator, a soldier meets an old man, bridge, war zone, sad old man to leave behind animals - People of different class, cold night, fire, needs log, no one helps, all dies of cold - Antonio's shipwreck Shylock's revenge setting for climax	- Report- Historical war - Group discussion- moral - Role Play
3	Aug	Poem 3 The Bangle Sellers Story 1 Chief Seattle's Speech Act - III Sc-2	- Colourful bangles, suitable for women of every age, temple fair - Distinction between Whites and Red Indians, Their attachment with their land and culture - Bassanio triumphing the lottery	- Collect information- Culture and Values of Indian Woman - References from History on Inter religion discrimination - Role play
4	Sept	Story-3 A Horse and Two Goats Poem 4 After Blenheim	- Aged man Muni, poverty, craving for drumsticks sauce, American tourist, highway, horse statue, hilarious talk - Old Kaspar tells the story of historical war of Blenheim to his grand child, curious children's questions, English defeated the French	- Write a review of a comedy scene - Discussion on the historical war between British and French
5	Oct		SA-1 Exam	
6	Nov	Story 4 Hearts and the Hands	- Miss Fairchild meets Mr. Easton on a train, handcuffed, Marshal protects the identity of Mr Easton	- Write a short Note : Whose character has impressed you the most Fairchild, Mr Easton or Marshal ? Why ?
7	Dec	Poem 5 Television	- Advises for Parents don't allow your children to sit in front of TV, time wasting, kills their imagination. power, read books to gain joy	- Argumentative composition Topic-Is watching Television is beneficial for children ?

Eng Lit - 9

S.N.	Month	Topic	Sub Concept	Activity
		Poem 6 Daffodils	- Fluttering and swaying Daffodils in large no. Bank of lake, viewing sight poet is extremely happy, remembers in his sad mood, pleasure	- Discussion on “Beauty of Nature”
		Act - II	- Revision	- Role Play
8	Jan	Story 5 A Face in the Dark	- Mr. Oliver (teacher) encounters weeping boy, horrible night, no face of boy and watchman	- Share your experience when you were horrified
		Story 6 An Angel in Disguise	- Three poor children, elder two adopted, Maggie the youngest was avoided, Mr Thompson took her, parental love	- Critical analysis
9	Feb	Poem- 1 to 6 (revision) Story - 1 to 6 (revision) Drama - Act I to II (All scenes) Act III - Sc- 1,2	- Worksheet ,assignments, Refrence book, notes Storyline, Scenewise	- Brain storming exercise - enactment
			Annual Exam	

Paper Style

Unit Test 1 - Story 2, Poem 1, Drama Act I (Sc I to III) (40)

SA-1: Story - 1, 2, 3 Poem 2,3 ,Drama Act II (Sc I to IX) (80)

Unit Test 2 : Poem4,5 Story 4,5, Drama Act III (Sc I) (40)

Board Exam - Final -Whole syllabus (80)

Stories 1 to 6, Poem - 1 to 6

Paper style for UNIT Test - 1,2 (40)

1. Read the extract and answer the questions that follow - Drama (14)

2. Read the extract and answer the questions that follow - Poetry (13)

3. Read the extract and answer the questions that follow - Story (13)

SA-1 and Board Exam

Attempt five questions in all out of six. One Question is compulsory to attempt from each section.

Section A (Drama)

Merchant of Venice

Q.1. Read the extract and answers the questions that follow. : (16)

Q.2. Read the extract and answers the questions that follow. : (16)

Section B (Poetry)

Q.3. Read the extract and answers the questions that follow. : (16)

Q.4. Read the extract and answers the questions that follow. : (16)

Section C (Prose) (Short Stories)

ICSE Short Stories]

Q.5. Read the extract and answers the questions that follow. : (16)

Q.6. Answer the following Briefly : (16)

Hindi- 9

S.N.	Month	Topic	Sub Concept	Activity
1	June	१. साखी - P १. बात अठग्री (L) निबंध / पत्र	- दोहे का गायन - भ्रष्टाचार की जानकारी पत्र प्रारूप	- दोहे का सस्वर वाचन पात्र अभिनय पत्र लेखन
2	July	२. काकी-L २. गिराधर की कुंडलियाँ - (P) समानार्थी, विलोम, मुहावरे	- मातृवियोग पीड़ा नीतिसंबंधित जानकारी शब्दों का ज्ञान	- माँ शब्द पर विचार- विमर्श - कुंडलियों का गायन शब्दों का जाल
3	Aug	३. महायज्ञ का पुरस्कार (L) ३. स्वर्ग बना सकते हैं (P) निबंध	- मानव सेवा समानता का भाव	- वाद- विवाद कविता लेखन
4	Sept	५. अपना-अपना भाग्य (L) ४. वह जन्मभूमि मेरी (P)	- भाग्य और पुरुषार्थ देशभक्ति	- लेखन कार्य कविता लेखन
5	Nov	४. नेता जी का चश्मा (L) निर्देशानुसार वाक्य परिवर्तन व्याकरण ६. बड़े घर की बेटी (L)	- देशभक्ति वाक्य रूपांतरण एकल परिवार की व्याख्या	- नेता जी का चित्र बनाना - पारिवारिक विषयों पर चर्चा
6	Dec	५. मेघ आए (P) पत्र	- प्रकृति वर्णन पत्र का प्रारूप	- बारिश का चित्र पत्र लेखन
7	Jan	१. संस्कार और भावना (L) ६. सूर के पद (P)	- मानव प्रकृति वात्सल्य वर्णन	- पारिवारिक वाद-विवाद पदों का गायन
8	Feb	पाठों का अभ्यास		

Paper Style

Unit test-1 , Total Marks - 40

1. निबंध - 15
2. पत्र - 07
3. अपठित गद्यांश - 10
4. व्याकरण - 08

Unit test-2, Total Marks - 40

(Lesson - 4,5)

(Poem - 4,5)

- | | |
|---------------|------|
| L- 4,5 अवतरण | - 10 |
| P- 4,5 अवतरण | - 10 |
| अपठित गद्यांश | - 10 |
| व्याकरण | - 10 |

SA-1 (80)

Lesson- 1,2,3, P-1,2,3

निबंध, पत्र, अपठित गद्यांश, व्यावहारिक व्याकरण

1. निबंध - 15
2. पत्र - 07
3. अपठित गद्यांश - 10
4. व्याकरण - 08
5. भाग ख-40 M
अवतरणों के प्रश्नो
के प्रश्नो के उत्तर - 40

SA-2 (80)

1 to 6 Poem, 1 to 6 Lesson

एकांकी संचय - L-1

1. निबंध - 15
2. पत्र - 07
3. अपठित गद्यांश - 10
4. व्याकरण - 08
5. अवतरणों के प्रश्नो के
उत्तर - 40

MATHS

Sr. No.	Month	Topic	Subtopic	Activity
1.	June	Ch-1. Rational and irrational Numbers	1. Rational Numbers, Operations on Rational Numbers and properties of Rational Numbers 2. Irrational Numbers, Operations on irrational Numbers and properties of irrational Numbers. 3. Surds and Rationalization of Surds.	Quiz
		Ch-2 Compound interest	Important terms, To find CI when interest is compounded annually, semi-annually & quarterly Growth & Deprecation.	Group Discussion
		Ch-14 Statistics, introduction, Data and Frequency Distribution	1. Data and Related Terms, collection of data and Presentation of data.	Quiz
		Ch-3 Expansions	1. Expansions $(a \pm b)^2$, $(a+b+c)^2$ 2. Expansions $(a \pm b)^3$ 3. Expansion $(x \pm a)(x \pm b)$	Expansion of identity $(a+b+c)^2$
2.	July	Ch-4. Factorization	Factorization –by taking out common factor, by Grouping, of trinomials (By splitting the middle term)	Group Discussion
		Ch-5 Linear Equations and Simultaneous Linear Equation	Linear Equations and simultaneous linear equations - (a) Solving algebraically (b) Solving simple problems based on these by framing appropriate formulae.	Group Discussion Group Discussion
		Ch-6. Indices	Laws of Indices	Quiz
		Ch-7. Logarithms	Logarithmic forms, exponential form: interchanging Laws of Logarithms and its use.	Quiz
3.	Aug.	Ch-20 Coordinate Geometry	Cartesian system & related terms, plotting of points Graphs of linear equations, solving simultaneous Linear Equations.	Graphs
		Ch-8. Triangles	Triangle, Congruence of triangles, Inequalities, results on Isosceles Triangles.	Practical Activities
		Ch-9. Mid-Point and Intercept Theorem	Mid-Point Theorem & its converse, Equal Intercept Theorem proof & simple application.	Group Discussion
4.	Sep.	Ch-10. Pythagoras Theorem	Proof & Simple application of Pythagoras Theorem & its converse.	Group Discussion
		Ch-15. Mean, Median and Frequency Distribution	Find median of an ungrouped data. Find mean for ungrouped frequency distribution by 1. Direct method. 2. Assumed mean method frequency polygon	Collect the data from daily life and calculate its mean

5.	Oct.		Revision & Exam SA-1	
6.	Nov.	Ch-20 Trigonometrical Ratios Ch11 Rectilinear Figures	Trigonometric Ratios, T-Ratios of 0° , 30° , 45° , 60° & 90° , T - Ratios of complementary angles, Simple 2-D problems. Quadrilateral & related terms, Results on parallelogram, rectangle, Rhombus & square, Construction of quadrilaterals.	Prepare a table for different angles Constructions
7.	Dec	Ch-12 Area Theorems Ch-16 Area of Plane Figures Ch-17, Circle - Circumference & Area	Fundamental Concepts, Area Axioms, Results on area of polygon regions. Perimeter & Area of (i) Triangles, (ii) Different types of Quadrilaterals Circumference & Area of Circles	Theorems Explanations Group Activity
8.	Jan.	Ch.18 Surface area and Volume of 3D solids Ch.13 Circle	Surface Areas & Volume of (i) cube, (ii) cuboid Cross Section. Terms and Facts related to-circle, Arc and chord properties of circles.	Group Activity Group Activity (Quiz)
9	Feb		Revision & Exam SA-2	

Syllabus

Unit Test-1 (40 Marks)

Ch. 1, 2, 3, 14

Unit Test-2 (40 Marks)

Ch. 11, 12, 20

SA-1 (80 Marks)

Ch. 1 to 10, 14, 15 & 20

SA-2 (80 Marks)

Whole Syllabus

Paper Style

Paper Style for Unit Test -1 & 2

The Paper will be divided into two sections, Section 1(20m), Section 2 (20m)

Sec A: It will consist of compulsory 4 questions.

4x5=20

Sec B: Students will be required to answer 4 out of 6 questions.

4x5=20

Paper Style for SA-1 & 2

The paper will be divided into two sections, section 1 (40m), section 2 (40 m)

Section A : It will consist of compulsory 4 questions, Each question carries 10m

4x10=40

Section B : Students will be required to answer 4 out of 7 questions, Each question carries 10m

4x10=40

Note: Types of Questions are subject to change for all the paper style.

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	July	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	Aug	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	Brainstorming Discussion Explanation Significance of Duties.
CH-4	Sep	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	Nov	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	Dec	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	Jan	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 tion	June	The Harappan Civil- ization	The Beginning of the civilization Chief Features of the Harappan Civilization, Lothal Dockyard,	Brainstorming Explana-
CH-2	June	The vedic - Period	End of the Indus valley Civilization 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	Brainstorming Discussion Explanation
CH-3	July	Rise of Jainism and Buddhism	The impact of Aryan Civilization. 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, Enlighten-	Brainstorming Explanation
CH-4	Aug	The Mauryan Empire	ment Teachings of Lord Buddha, eight fold paths. Ashoka, The Great, Extent of Ashoka's Empire Souces 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		The Sangam Age	The Sangam Literature, Inscription, Society and Economy, Economic Life, Religion,	Brainstorming Discussion
CH-6	Sep	The Age of the Guptas	Education and Literature, Recreation 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	Explanation Brainstorming Discussion Explanation
CH-7(a)	Nov	Medieval India (The Cholas)	Administration. The three kindoms of South india The Cholas (846 AD-1279 AD) The Founder of Chola Kingdom, Downfall of Chola's The Chola Polity	Brainstorming Discussion Explanation
CH-7(b)	Dec	The Delhi Sultanate	The Chola Society and Culture Qutbuddin 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

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	SA-1 Exam		
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
SR.NO	Month	Topic	SUBTOPIC	Activity
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 (40M)

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

SA I & SA II (80M)

1. Composition (any one) - 20m
2. Letter (any one) - 10m
3. Notice writing - 05m
4. Email writing - 05m
5. Comprehension - 05m
6. Grammar ex (All) - 20m

Paper Style – 9 (as per Board)

SA I AND SA 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 BIOLOGY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	Ch.1- Introduction to Biology Ch.2-The Cell Ch.3-The tissues	<ol style="list-style-type: none"> 1. Branches of Biology 1. Structure of Cell 2. Cell theory 3. Cell organelles 4. Prokaryotic & Eukaryotic cell 1. Plant tissue- Meristematic, Permanent, Protective. 	<p>-</p> <p>To look at the plant cell & animal cell.</p> <p>To study the slides of animal & Plant tissues.</p>
2.	Jul	Ch.3 Continue Ch.09- Economic Importance of Bacteria and Fungi Ch.10-Nutrition Ch.11- Digestive System	<ol style="list-style-type: none"> 2. Animal Tissue- Epithelial, Connective, Muscular, Nervous. 1. Useful & Harmful roles of Bacteria & Fungi 2. Preservation of food 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 	<p>-</p> <p>Self-Study</p> <p>Tests for the presence of carbohydrates, proteins and fats in food substances.</p> <p>Study the model of digestive system.</p>
3	Aug	Ch. 11 continues Ch.12-Skeleton- Movement and Locomotion Ch.4-The Flower	<ol style="list-style-type: none"> 4. Certain Experiments on Digestion 1. Skeleton and its function 2. Human Skeleton 3. Joints 4. Muscles 1. Structure and functions of various parts of a flower 2. Placentation 3. Inflorescence 	<p>-</p> <p>Study the model of human skeleton system.</p> <p>To study different parts of flowers</p>
4.	Sept	Ch.5-Pollination and Fertilization	<ol style="list-style-type: none"> 1. Pollination 2. Self pollination 3. Cross pollination 4. Agents of Pollination 5. Fertilization 	To study the structure of pollen grains

		Ch.6-Seed: Structure, types and Germination	1. Structure of a seed 2.Types of seeds 3.Germination 4.Types of germination	Study the different types of seeds & their germination
		Ch.13-Structure and Function of Skin	1.Function, structure and derivatives of skin 2. Role of skin in heat regulation	Self study
5.	Oct	SA-I Exam		
6.	Nov	Ch.19-Waste generation and Management	1.Types of Waste 2. Management of waste 3. Waste Prevention	Self study
		Ch.7- Respiration in plants	1.Types of respiration 2. Respiration in plant 3. Experiments on respiration	Study the structure of stomata
		Ch.8-Five Kingdom Classification	1. Five kingdom classification 2. Kingdom- Monera, Protista,Fungi, plantae.	Study of different plant & animal Specimens
7.	Dec	Ch.8 Continues	1. Kingdom – Animalia	-
		Ch.14- Respiratory system	1. Respiratory system in Humans	Study the model of respiratory system
		Ch.15- Hygiene	1.Personal & Public Hygiene 2. Control of vectors and water borne diseases	-
8.	Jan	Ch.16 – Diseases: Cause and control	1. Communicable & Non- communicable diseases	-
		Ch.17- Aids to Health	1. Immunity 2. Vaccination and Immunization	-
		Ch. 18- Health Organizations	1. RED cross 2. WHO	-
9.	Feb	SA-2 Exam		

Syllabus

Unit Test-1 (40 Marks)
Ch. 1, 2, 3, 9
SA-1 (80 Marks)
Ch. 4 ,5,6,10, 11, 12,

Unit Test-2 (40 Marks)
Ch. 7,8,13,19
SA-2 (80 Marks)
Whole syllabus

Paper Pattern for Unit Test 1 &2:-

SECTION-A (10 Marks)

(Attempt all questions)

(Objectives Type Questions)

SECTION-B (10 Marks) [(5+5) ×1]

(Attempt any one questions from two questions)

(Descriptive type Questions)

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

Each question shall carry 10 marks (5+5)

Paper Pattern for SA I & II

SECTION-A (40 Marks)

(Attempt all questions)

(Objectives Type Questions)

SECTION-B (40 Marks) [(5+5) ×4]

(Attempt any one questions from two questions)

(Descriptive type Questions)

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

Each question shall carry 10 marks (5+5)

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

STD 9 CHEMISTRY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	Ch-3 Water	<ol style="list-style-type: none"> 1. Water as a universal solvent 2. Hydrated and anhydrous substances 3. Drying and dehydrating agents 4. Hard & Soft water 5. Solution and solubility of solution 	<ul style="list-style-type: none"> • Preparation of Saturated solution • Identify solute, solvent & solution • Numerical
2	Jul	Ch-1 The Language of Chemistry	<ol style="list-style-type: none"> 1. Symbols & Formulae 2. Valency & Naming 3. Chemical Equation 4. Balancing 5. R.A.M & R.M.M 6. Calculation of R.A.M & Percentage composition 	<ul style="list-style-type: none"> • Prepare chart showing element with symbols, atomic number, Valency & Formula.
3	Aug	Ch-7 Study of Gas laws	<ol style="list-style-type: none"> 1. How gases differ from solids & liquids in certain properties 2. Characteristics of gases 3. Variable for gas laws 4. Boyle's Law 5. Charles Law 6. Concept of STP Gas equation 	<ul style="list-style-type: none"> • Numerical
4	Sep	Revision for SA1 Ch-6 Study of the first element – Hydrogen	<ol style="list-style-type: none"> 1. Position of Hydrogen 2. Occurrence of Hydrogen 3. General methods of Preparation of Hydrogen 4. Laboratory method for the preparation 5. Industrial method for the preparation <p>Oxidation and Reduction reactions</p>	Hydrogen gas release by reaction of metal with acid
5	Oct		MID Term Exams	
6	Nov	Ch-8 Atmospheric pollution	<ol style="list-style-type: none"> 1. Acid rain 2. Global warming 3. Ozone depletion 4. Oxygen cycle 5. Carbon dioxide cycle 	<ul style="list-style-type: none"> • Paste pictures & make chart on pollution.
7	Dec	Ch-4 Atomic structure and chemical bonding	<ol style="list-style-type: none"> 1. Dalton's atomic theory 2. Contradiction, Discovery of modern structure of atom 3. Thomson's , Rutherford's & Bohr's atomic models 4. Study of Nucleus 5. Valence electrons 6. Chemical properties of elements 7. Metallic & Non-metallic character of elements 8. Isotopes 9. Chemical bonding 10. Chemical inertness of noble gases 11. Electrovalent & Covalent bonding 	<ul style="list-style-type: none"> • Model of an atom.
8	Jan	Ch-2 Chemical changes & reactions Ch-5 The Periodic Table	<ol style="list-style-type: none"> 1. Chemical changes & reactions 2. Conditions & Energy changes 3. Photochemical, Electrochemical reaction, Combustion 4. To prove that air is essential for combustion 1. Necessity or classification 2. Early attempts 3. Classification by Dobereiner, Newland, Mendeleev 4. Modern Periodic table 	<ul style="list-style-type: none"> • Dissolution of sugar in water • Burning of paper • Magnetization of Fe [Iron]

9	Feb		Final Exams	
---	-----	--	-------------	--

UNIT TEST 1: Ch-3 (40marks)UNIT TEST 2: Ch-6 & 8 (40 marks)

Type of questions:-

Section I (10 marks)

Q.1) MCQs

Q.2) Fill in the blanks

Q.3) Answer in one word- Formula [Molecular, Chemical]

Section II (10 marks)

Q.4) Answer in short

Q.5) A. Difference between
B. Equations

SA 1 : Ch-1 & 7 (80marks)SA 2 : WHOLE COURSE (80 marks)

Section I (40 marks) Attempt all the questions

Q.1) A. MCQs

B. Fill in the blanks

Q.2) A. Definition with examples/ Characteristics

B. Difference between

C. Give Scientific reasons

Q.3) A. Complete and balance the equations

B. Explain with examples

C. Formulae/Atomic number/Valency/Electronic configuration

Section II (40 marks) Out of five questions answer any four questions each carrying 10 marks.

Type of questions in each question:-

- Experiment with labeled diagram
- Find out reactants/products from the given equation/reaction
- Properties
- Describe in detail
- Explain the terms
- Applications (uses)
- What happens when
- Merits and Demerits

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

STD 9 GEOGRAPHY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	L-1 The Earth as a planet L-2 Geographic grid L-3 Rotation and Revolution	The earth: A unique planet, shape of the earth, size of the earth, Earth- The living planet. 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. Rotation, Revolution and its effects, effects of the tilted Axis on day and night, The changing seasons A solstices and equinoxes.	Collect information about the earth. Make charts of inclination of the earth revolution of the earth.
2.	Jul	L-4 Structure of the earth L-5 Landforms of the earth L-6 Rocks	The core, The mantle, lithosphere and the plate tectonics, comparative study of crust, mantle and core. Landforms, mountains, plateaus, plains Rocks and minerals, Type of Rocks, Rocks cycle Economics significance of rocks	Make charts and diagrams of the interior of the earth and collect information about tectonic force. Make modal of land forms of the earth Collect pictures of different rocks and try to recognize them from their physical properties.
3.	Aug	L-7 Volcanoes L-8 Earthquakes L-9 Weathering and Denudation	Type of volcanoes, products of volcanic eruptions, world distribution of volcanoes, effect of volcanic activity Earthquakes , causes of earthquakes, Hazardous effects of earthquakes, constructive effects of earthquakes, distribution of earthquakes The changing landscape, effects of weathering, gradation and its agents, land forms made by winds work of river.	Make model of different types of volcanoes. Collect information about some major earthquakes and discuss in class. Collect information about different types of weathering and discuss in class.
4.	Sept	L-10 Hydrosphere, Tides and ocean currents L-11 The Atmosphere	Hydrosphere, The oceans, importance of oceans The distribution of land and water, movements in the oceans, effects of ocean currents. Earth's atmosphere, Composition of the atmosphere, structure of the	Collect information about different major oceans of the world and discuss with class. Find out the information about the effect of El Nino on global as weather system.

			atmosphere. The Ozone layer The Green house effect and Global warming	
6	Nov.	L-12 Insolation	Insolation, Factors affecting distribution of pressure, Factors affecting distribution of pressure Major pressure belts of the world winds.	Make a figure of heat budget.
7	Nov.	L-13 Pressure Belts and types of winds	Atmospheric pressure, Measurement of Atmospheric pressure Factor affecting distribution of pressure Major pressure belts of world winds.	On outline map of the world, mark with arrows and names the various tropical cyclone.
8	Dec.	L-14 Humidity L-15 Pollution & its sources	Humidity, Precipitation, condensation, Types of rainfall, measurement of rainfall Sources of pollution- Air pollution, water pollution , soli pollution, sources of noise pollution, Radiation pollution	Collect information about different types of precipitation and discuss in class. Find out the percentage of pollutants released into the air by automobiles. Do you think
		L-16 Effect of Pollution L-17 Preventive measures of pollution	Effects of Air, water, soil, Radiation and noise pollution Public Transport system, No Smoking Zones saving energy, organic farming.	Introduction of CNG in some of the cities has been helpful in reducing pollution levels? Discuss in class Class discussion on measures of pollution
8	Jan	L-18 Natural Regions of the world-I L-19 Natural Regions of the world-II L-20 Natural Regions of the world-III	Natural Regions, Location and extent, climate Natural vegetation, importance of rainforests, Human adaptation. The Hot Desert or tropical desert location extend Climate, Rainfall Tropical Monsoon The Mediterranean Region- Location and Extent climate, natural vegetation. Agriculture Temperate Grassland, Tundra Region Tropical Grassland- Vegetation , Animal life and Human Adaptatio	Map work Map work Map Work

Syllabus:

Unit Test 1: Ch 1, 2, 3,

SA-1: Ch 4, 5, 6,7,8,9,10

Unit Test 2: Ch 11,12,13

SA-2 : Whole syllabus

Paper Style - 9**Unit Test 1 and 2: (40 Marks)**

Q1. Map 10 Marks

Q2. Subjective 30 Marks

SA-1 & SA2 (80 Marks)**Part-I (30 marks)**

Attempt all questions from this part

Q1 Will consist of a questions based on map. 20 marks

Q2 will consist of short answer questions from the syllabus. 10 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 Physics

Sr. No	Month	Topic	Sub Topic	Activity
1	June	Ch-1 Measurements and Experiments Ch-2 Motion in one Dimension	Basics of the chapter	<ul style="list-style-type: none"> Measurement experiments
2	July	Ch-2 Cont... CH-3 Laws of Motion	<ol style="list-style-type: none"> Scalar and vector quantity Distance, Displacement, velocity, speed, acceleration Graphical representation & Derivation of linear motion Equation of motion <ol style="list-style-type: none"> Force, Contact and non contact Newton's law of Motion Inertia, linear momentum Universal law of gravitation Diff. between mass & weight 	<ul style="list-style-type: none"> Numericals related to motion Videos in smart class Daily life examples basis on Newton's law
3	Aug	Ch-4 Pressure in Fluid Ch-5 Upthrust & Archimedes Principle and Floatation	<ol style="list-style-type: none"> Thrust, Pressure Pressure in liquid Pascal Law for liquid Hydraulic machines Atmospheric Pressure Simple & aneroid barometer <ol style="list-style-type: none"> Buoyancy & Upthrust Archimedes Principle Floatation Relative Density 	<ul style="list-style-type: none"> Numerical related to pressure & Thrust Experiment based on Archimedes Principle
4	Sept	Ch-6 Heat & Energy	<ol style="list-style-type: none"> Heat, Temperature Anomalous expansion of water Hope's Experiment Renewable & Non-renewable energy Greenhouse effect & Global warming Energy flow & its important 	<ul style="list-style-type: none"> Explain for expansion in solid & liquid.
5	Oct	Revision for SA 1		
6	Nov /Dec	Ch-7 Reflection of Light	<ol style="list-style-type: none"> Reflection of Light Regular & Diffused reflection Laws of reflection Image formation by Spherical, Plane Mirror Sign Convention of measurement Mirror formula & numerical problems 	<ul style="list-style-type: none"> Practice of Image formation
7	Dec	Ch-8 Propagation of Sound waves	<ol style="list-style-type: none"> Sound Waves Propagation of Sound in Medium Speed of Sound in different Medium Speed of sound in air Ultrasonic sound 	<ul style="list-style-type: none"> Reflection of Sound using plane mirror
8	Jan	Ch-9 Current Electricity & Magnetism-1[std-9]	<ol style="list-style-type: none"> Electric Current, potential difference Primary & Secondary cell Open & close Circuit Resistance & factor affecting it Series & parallel connection Ohm's law Quantity of electric charge Relation between emf, internal & External resistance 	<ul style="list-style-type: none"> Make Circuit using voltmeter, Ammeter, Resistance and verify ohm's law.
9	Feb	Ch-10 Magnetism [std-9]	<ol style="list-style-type: none"> Properties of magnetic field lines & magnet Induced Magnetism 	<ul style="list-style-type: none"> Show magnetic lines of a Bar magnet

Sr. No	Month	Topic	Sub Topic	Activity
			3. Magnetic field of Earth 4. Neutral points 5. Electromagnet & its uses 6. Classification of substance 7. Oersted experiment 8. Solenoid 9. D.C. electric motor 10. Electromagnetic induction 11. Faraday's laws 12. A.C. Generator or Dynamo Transformer	

PAPER STYLE - 9

UNIT TEST 1: Ch-1 (a) (b) (c) (40marks) UNIT TEST 2: Ch-6,7 (40 marks)

Type of questions:-

Section I (10 marks)

Q.1) Answer in short (Definition ,unit or formula based)(10 question of 1 mark each)

Section II (10 marks)

Q.2) Answer in short (diagram based, numerical, difference, long question)(4 questions of 2.5 marks each)

SA 1 : Ch-1,2,3,4,5 (80marks) SA 2 : All chapters (80 marks)

Section I (40 marks) Attempt all the questions

Total four question having five parts each. Each part carries 2 marks.

(Numerical, Define term, concept based, diagram based)

Section II (40 marks) Out of six questions answer any four questions. Each question has three parts and carries 10marks

overall

(Numerical, Define term, concept based, diagram based)

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