

SYLLABUS 2019-20

CLASS - 8

Content

Maths

Eng Lan.

Eng Lit.

Hindi

Sanskrit

Physics

Chemistry

Geography

Biology

Hist. Civics

Computer

Maths - 8

S.N.	Month	Topic	Sub Concept	Activity
1	June	Ch-1 Rational Numbers	<ul style="list-style-type: none"> - Representation of a Rational Number on a number line - Compare and order Rational Number - Addition and Properties of Addition of Rational Numbers - Subtraction and Properties of subtraction of Rational Numbers - Multiplication and properties of multiplication of Rational numbers - Division and properties of Division of Rational numbers - Rational Numbers between two Rational Numbers - Word Problems 	- Worksheet
2	July	Ch-2 Playing with Numbers Ch-20 Graphical Representation of Data Ch-3 Exponents Ch-4 Square and square Roots ; Cube and cube Roots Ch-5 Operations on sets and Venn Diagram	<ul style="list-style-type: none"> - Generalized form of Numbers - Letters for Numbers - Magic square and other number Arrangments - Patterns Generated by numbers - Divisibility Rules for Numbers - Some Important Terms - Unground Data - Bar graphs and Double bar Graphs - Grouping of Data - Histogram - Pie Chart - Choosing the Best - Graphical Representation for a given Data - Integers as Exponents - Laws of Exponents - Expressing Numbers in scientific Notation using exponent - Squares - Perfect Squares - Square Roots - Cubes - Perfect Cubes - Cube Roots - Sets - Types of Sets 	<ul style="list-style-type: none"> - Worksheet - To collect, Organize and represent data using a histogram and a pie chart - To understand the base and power of an exponent and find its value - To make squares with different sides using unit squares and to review the relationship between the side of a square and its area. - Worksheet

S.N.	Month	Topic	Sub Concept	Activity
			<ul style="list-style-type: none"> - Operation on Sets - Venn Diagrams - Representation of set Relationship using venn Diagram - Problem solving using Venn Diagram 	
3	Aug	Ch-6 Direct and Inverse Variation Ch-9 Operations on Algebraic Expression Ch-10 Special products and Expansions	<ul style="list-style-type: none"> - Variations - Direct variations - Indirect variations - Application of Direct and Inverse variation in Real life - Algebraic Expressions - Types of Algebraic Expressions - Degree of polynomial - Addition and subtraction of Algebraic Expressions - Multiplication of Algebraic Expression - Division of Algebraic Expressions - Simplifying Algebraic Expressions - Common Errors in working with ALgebraic Expressions - Standard Identities - Application of Identities 	<ul style="list-style-type: none"> - Worksheet - Worksheet
4	Sept	Ch-11 Factorization of Algebraic Expressions	<ul style="list-style-type: none"> - Factorization of Menomials - Factorization of Polynomials - Division of a polynomial by a polyno-mial using Factorization - Revision 	- Worksheet
5	Oct.		- SA-1	
6	Nov	Ch-7 Percentage and its Application Ch-8 Simple and Compound Interest Ch-14 Polygons, Quadrilaterals and circles	<ul style="list-style-type: none"> - Percentage - Working with percentages - Profit and loss - Discount - Goods and Service Tax (GST) - Simple Interest - Compound Interest - Formula for calculating compound interest - Inverse problems using compound Interest formula - Applications of compound interest - Polygon - Quadrilaterals - Classification of Quadrilaterals 	<ul style="list-style-type: none"> - To play a game of buying and selling items and find out the prices of different items after applying discovernt and tax - Worksheet - To understand the agnle sum property of a quadrilat-eral through the catand

S.N.	Month	Topic	Sub Concept	Activity
		Ch-15 Constructions of Quadrilaterals	<ul style="list-style-type: none"> - Circle - Constructions of a Quadrilateral - Construction of special types of Quadrilaterals 	<ul style="list-style-type: none"> - paste method - Construction
7	Dec	Ch-12 simple linear Equations and Inequalities Ch-13 Graphs Ch-16 2D Representation of 3D Shapes	<ul style="list-style-type: none"> - Equations - Solving an Equation - Practical Applications of linear Equations - Linear Inequalities - Cartesian system or cartesian plane - Coordinates - Quadrants - Locating points on a cartesian plane - Plotting points on a cartesian plane - Graphs of linear Equations - Plotting Linear Graphs - Views of 3D shapes - Drawing 2D representation of 3D objects - Nets of 3D shapes - Polyhedrons - Euler's Formula 	<ul style="list-style-type: none"> - Worksheet - Graphs - To make a square pyramid by drawing its net and verify the Euler's relation for it.
8	Jan	Ch-17 Symmetry Ch-18 Area of Polygons and Semicircles	<ul style="list-style-type: none"> - Symmetry Around us - Reflection - Rotational Symmetry - Point Symmetry - Area of Perimeter of some plane Figures - Areas of Quadrilaterals and Polygons - Area of Semicircle 	<ul style="list-style-type: none"> - To understand the point symmetry in letter s. - Worksheet
9	Feb	Ch-19 Volume and surface Area Ch-21 Probability	<ul style="list-style-type: none"> - Total surface Area and Lateral surface Area - Unit of Volume - Volume of a cuboid and a cube - Volume of a right circular Cylinder - Basic Terminology - Probability 	<ul style="list-style-type: none"> - To understand the concept of total surface area and volume of a cuboid - Worksheet
10	March		<ul style="list-style-type: none"> - Revision - SA-2 Exam 	

Paper Style

Unit test -1

Ch- 1,2,20

Questions:

1. Objectives (10)
2. Do as Directed (10)

Unit test -2

Ch- 7,8,14

Questions:

1. Objectives (10)
2. Do as Directed (10)

SA -1

SA-1 Ch- 1 to 6 ,9,10,11,20

Questions :

- Sec A Q-1 to Q-4 (10)
- Sec B (Attempt any 4 out of 7)
- Q- 1 to Q-7 (10)

SA -2

SA-2 Ch- 7,8,12 to 19, 21

Questions :

- Sec A Q-1 to Q-4 (10)
- Sec B (Attempt any 4 out of 7)
- Q- 1 to Q-7 (10)

Eng Language- 8

S.N.	Month	Topic	Sub Concept	Activity
1	June	L-1 Phrases and Clauses	- Phrases , Clauses, Adverb Clauses Adjective Clauses, Types of relative Clauses, Composition , Letter writing informal	- Language games
2	July	L-2 Nouns L-3 Adjectives	- Nouns from verbs and adjectives , Noun cases, Nouns as the objects of prepositions, Prepositional phrases - Revision of types of adjectives - Distributive adjectives - Quantitative adjectives - Letter writing formal	- Making nouns from the words
3	Aug	L-4 Pronouns L-5 Verbs	- Revision of types of pronouns - Demonstrative pronouns - Relative pronouns - Email pronouns - Using be , Regular and irregular verbs, Finite and non-finite verbs, Transitive and intransitive verbs, complement of the verb, Modal auxiliary verbs	- Weaving a story with given words and recognition of verbs
4	Sep	L-6 Tenses L-7 Adverbs	- Present tense, Past tense, Future tense, Using going to - Revision of adverbs, Position and order of adverbs, Difference between words that can be used as adjectives and adverbs - Degree of comparison	- Writing a composition using future Tense
6	Nov	L-8 Prepositions	- Prepositional phrases - Prepositions of time, Prepositions of place, Different uses of preposition - Composition	- Brain- Stormers
7	Dec	L-9 Conjunctions	- Coordinating conjunctions - Subordinating conjunctions - Correlative conjunctions	- To highlight the conjunctions in newspaper report
8	Jan	L-10 Determiners L-11 Punctuation L-12 Types of Sentences	- Determiners , Predeterminers - Using a / the + few / little - Notice writing - Capital letter, Punctuation marks, Punctuation for speech - Email writing - Simple , compound and complex sentences, Analysis of sentences	- Chart on Punctuation marks and its uses

Eng Language- 8

S.N.	Month	Topic	Sub Concept	Activity
		L-13 Sentences: Synthesis and Transformation	- Transformation of sentences - Synthesis of sentences - Letter Informal	
9	Feb	L-14 Direct and Indirect Speech L-15 Voice	- Change of tenses, Changes of pronouns in reported speech, Using reporting verbs, Change in expressions of time and place - Rules for Using the correct voice, Change of verbs, Changing the voice with modals, Change of pronouns	- Flow chart Rules of speech Transformation - Flow chart
10	March	SA-2 Exam		

Paper Style

Unit test - 1

L-1,2,3 + Writing Skill

Unit test - 2

L-8,9,10 + Writing Skill

Questions

1. Grammar questions (10)
2. Writing Skill (10)

SA-1 , Ch-3,4,5,6,7 + Writing skill,

Composition, Letters, notice, email and comprehension

SA-2 , Ch-10,11,12,13,14,15 + Writing Skill

SA - PAPER STYLE

Section-A (Writing skill) (40)

1. Composition (1/3) (10)
2. Letters (Formal / Informal) (10)
3. a. Notice (05)
b. Email (05)
4. Comprehension (10)

Section-B (Grammar) (40)

Q.5 & Q-6 on Grammar topics.

Eng Lit- 8

S.N.	Month	Topic	Sub Concept	Activity
1	June	L-1 The face on the wall	-Mystery - short story - Idioms related to truth - Dictionary work	- Summerization
2	July	L-2 A Retrieved Reformation P-1 Night Voices L-3 Back from the Brink	- Adventure and suspense- short story - Expression with 'catch' and 'hold' - Suspense and thrill-poetic appreciation stanzaic pattern - Environmental concerns article - Word web - One word for many Dictionary work	- Narration of the story - Discussion on Global warming
3	Aug	L-4 Bees in My Back yard P-2 Portrait of a prince L-5 Armero has Disappeared from the Map ! L-6 The old Sea Dog	- First person narrative neighbourhood community and ecology - Expressions with face - Stress in contractions. - Magestic beasts poetry appreciation metre - Words used to descriptive people words often confused - Adventure story	- Telling jokes - Internet research Disaster management - Debate
4	Sep		- Words with multiple meanings - Sentence stress weak and strong forms	
5	Oct	SA-1 Exam		
6	Nov	P-3 The Wind in a Frolic L-7 The Strategist L-8 Salim's Song	- Impact of nature poetry appreciation personification - Adolescence prefixes and suffixes Dictionary work proverbs and idioms - Short story heritage	- Taking an interview - Expressing thoughts
7	Dec	P-4 Feelings	- Words related to food - Children and their issues poetry	about music
8	Jan	L-9 The Dynamite merchant L-10 Rio 2016 Olympics : Usain, and Mr.Bolt P-5 Lord Ullin's Daughter	appreciation hyperbole - Inventory and inventions - Biographical account - Words often mispronounced - Feature article - Sports collocations - Tragedy poetry appreciation personification	- Sharing views on the advantages and disadvantages of a mobile phone / Internet - Writing a biographical sketch of a sportsperson
9	Feb	L-11 An Interview with Rajat kappor L-12 The merchant of Venice P-6 An Inspiration	- Media art and theatre - Expressions with make and do Dictionary work. - Drama characters, story-plot, proverbs - Honour & Pride poetry appreciation	- Discussion on films and their purpose - Role play
10	March	Revision & Exam		

Paper Style

Unit Test - 1

L-1, P-1

Unit Test - 2

L-7, P-3

Questions

1.
 - a. True or False
 - b. F / B
 - c. Choose the correct option
2.
 - a. Write word meaning
 - b. Make your own sentences
3.
 - a. Answer the following
 - b. Reference to context

SA-1 2,3,4,5,6 , P-2

SA-2 L-8,9,10,11,12 P - 4,5,6

Questions:

1.
 - a. F / B
 - b. T / F
 - c. Choose the correct option
2.
 - a. Write word meaning
 - b. Make your own sentences
3.
 - a. Answer in one sentence
 - b. Answer in brief
4.
 - a. Central idea of the poem
 - b. Character sketches
5.
 - a. Reference to context
 - b. Answer in detail
 - c. Textual Grammar

Hindi- 8

S.N.	Month	Topic	Sub Concept	Activity
1	June	मात्राओं का अभ्यास १. हिंदुस्तान हमारा है २. अनेक मुखी गंगा निबंध -पत्र व्याकरण	- देशभक्ति की भावना भारत की नदियाँ प्रारूप	- कविता लेखन - सस्वर वाचन श्रुत लेखन
2	July	३. खुशी की तलाश ४. उखड़े खंभे व्याकरण/ भाववाचक संज्ञा	- संतुष्ट जीवन भ्रष्ट तंत्र की जानकारी शब्द ज्ञान	- डीकेशन टेस्ट अनुच्छेद लेखन शब्दों का खेल
3	Aug	५. राष्ट्रपति की चिंताएं ६. मेरा प्रकृति प्रेम मुहावरें	- महानपुरुषों की जानकारी प्रकृति की सुंदरता का वर्णन	- विचार-विमर्श प्रकृति का चित्र बनाना
4	Sept	७. सागर से बनारस तक ८. मौसी पपीतेवाली	- सादगी भरा जीवन बिताना ममता का भाव बताना	- कठिन शब्दों की सूची कहानी लेखन
5	Nov	९. सरोद श्री सरोद रानी १०. कृष्णगान पत्र / निबंध	- संगीत की जानकारी - कृष्ण भक्ति की जानकारी प्रारूप	- वाद्ययंत्रों के चित्र की जानकारी - नाट्य कविता गायन
6	Dec	११. जैन कथाएँ १२. पुरिकन के गाँव में व्याकरण	- जैन कथाओं के विशिष्ट गुण यात्रा की उत्सुकता	- कठिन शब्दों का अभ्यास - श्रुत लेखन कार्य
7	Jan	१३. सर्वपल्ली राधाकृष्णन १४. चाणक्य निति १५. छोड़ दो	- शिक्षक दिवसकी जानकारी चाणक्य की बुद्धिमता का परिचय स्वतंत्रता जन्मसिद्ध अधिकार	- राष्ट्रपतियों के नाम पात्र अभिनय कविता गायन
8	Feb	१६. कामचोर १७. नारी हंसोड पुनरावर्तन	- बच्चों की क्षमताएँ बताना नारी शक्ति का परिचय - हँसी का महत्त्व फायदे	- कहानी लेखन विचार विमर्श हँसी के प्रकार
9	March	पुनरावर्तन		

Paper Style

Unit test-1 , Total Marks - 20

1. निबंध - 10
2. पत्र - 05
3. अपठित गद्यांश - 05

Unit test-2 , Total Marks - 20
(Lesson - 7,8)

1. पत्र - 05
2. अवतरण - 05
3. निबंध - 10

SA-1 (80)

Lesson- 1 to 6

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

SA-2 (80)

Lesson- 9 to 18

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

Sanskrit- 8

S.N.	Month	Topic	Sub Concept	Activity
1	June	०१. वर्णमाला ०२. वन्दना १. मम दिनचर्या २. जानीहि निज-देशम्	- संयुक्त वर्णाः - अनुनासिक वर्णाः - अव्यय - सन्धि - लोट् लकार - किम् - table	- घटिका ज्ञानम् - लोट् लकार table practic
2	July	३. त्वरितबुद्धिः वानरः ४. इच्छाशक्तिः बलीयसी ५. विद्यालयस्य क्रीडा दिवसः	- स्म प्रयोग - विशेषणानि - लङ् लकार - लट् लकार - सर्वनाम, table - कृदन्त - भवत्- 'भव' धातु - अव्यय	- 'भव' - table practic
3	Aug	६. दुर्जनाः परिहर्तव्याः ७. सुवचनानि ८. पादपाः हितकारिण	- किम्- table - अस्- table - सन्धि - विभक्ति- table - उपपद विभक्ति - लट् (परस्मैपद- आत्मनेपद) - अव्यय	- 'चित्र कथा' रचना
4	Sept	पुनरावर्तनम् (१ से ८)	- पुनरावर्तनम्	-
5	Oct	SA- Exam		-
6	Nov	९. मैट्रोयानम्	- स्वर सन्धि - वाहनानि	Picture drawing of vehicals
7	Dec	१०. ई मनोरञ्जनम् ११. वञ्चनायाः फलम् १२. गणतन्त्र दिवस समारोहः	- तुमन् प्रत्यय - सन्धि - (एकवचनम्-बहुवचनम्) - चित् + चन प्रयोग - स्म प्रयोग - विशेषण - सर्वनाम	-

Sanskrit- 8

S.N.	Month	Topic	Sub Concept	Activity
			- उपसर्ग - सन्धि	
8	Jan	१३. अग्रे चलत चलत रे बालाः १४. अभ्यासम् कौशल प्राप्तिः	- लोट् लकार - विधिलिङ्. - सन्धि	
9	Feb	१५. अस्माकं प्रकृतिः - अव्ययानि - सख्य - १ से १०० - सन्धि,व्यवहारिक शब्दसूची - सूक्तयः	- पर्याय - नामपद - सर्वनाम - क्रियापदानि - अपठित कथा वर्णनम् - वार्तालापः - चित्र वर्णनम् - व्यवहार वाक्यानि	-
10	March	SA-2 Exam		

Paper Style

* W.T -1 Exam (Ch- 1,2,3 + Grammer)

1. वर्णमाला
2. विपरीतार्थक पदं
3. पर्यायवाची शब्द
4. मेलनम्- विशेषण
5. पद्यांश पूर्यत -
6. विकल्पेभ्यः उचितं पदं लिखत
7. पूर्णवाक्येन उत्तरत ।
8. लोट लकार
9. अव्यय
10. सन्धि

* S.A-1 Exam (Ch- 1 to 8 + Grammer)

1. अपठित
2. पूर्णवाक्येन उत्तरत
3. समानार्थक पदं
4. विपरितार्थक पदं
5. अव्यय
6. प्रश्नवाक्यं रचयत
7. अर्थ आड.ग्लभाषां एवं संस्कृतभाषां
8. सन्धि
9. कृदन्त
10. स्म प्रयोग
11. लङ्., लट्, लोट्
12. घटिका
13. उपपद विभक्ति
14. अस् प्रयोग
15. भव प्रयोग
16. किम् प्रयोग
17. अनुनासिक वर्णाः
18. संयुक्त वर्णाः
19. विकल्पेभ्यः उचितं शब्दं चित्वा लिखत।

* W.T -2 Exam (Ch- 9,10,11 + Grammer)

1. समानार्थक पदं
2. सन्धि
3. पद्यांश
4. विपरीतार्थक पदं
5. प्रश्न निर्माणम्
6. विकल्पेभ्यः उचितं पदं
7. पूर्णवाक्येन वाहनानि
8. एकवचनम् - बहुवचनम्

* S.A-2 Exam (Ch-8 to 15 + Grammer)

1. अपठित
2. कथा पूर्यत
3. चित्रं दृष्ट्वा वाक्यानि रचयत ।
4. वार्तालापः ।
5. विकल्पेभ्यः उचितं पदं
6. पूर्णवाक्येन उत्तरत
7. विपरीतार्थक पदं
8. समानार्थक पदं
9. सन्धि
10. संख्या
11. तुमुन प्रत्यय
12. स्म प्रयोग
13. क्रियापदानि
14. नामपदानि
15. सूक्तयः
16. व्यवहार वाक्यानि
17. प्रश्नवाक्यं
18. व्यावहारिक शब्द सूची
19. अव्ययानि

History/Civics - 8

S.N.	Month	Topic	Sub Concept	Activity
Ch-1	June	Gateway to Modernity	a. Source Material b. Modern Age in Europe. c. Voyages and Discoveries. d. Reformation.	Brainstorming Discussion Explanation
Ch-2		Industrial Revolution and Imperialism	a. Industrial Revolution. b. Imperialism.	Brainstorming Discussion Explanation
Ch-3	July	American War of Independence	a. Early Settlements in the New World. b. Causes of the American War of Independence. c. Declaration of Independence. d. Birth of New Nation. e. Impact.	Brainstorming Discussion Explanation
Ch-4		French Revolution	a. Causes of the French Revolution. b. Important events of the French Revolution. c. Post Revolution Era.	Brainstorming Discussion Explanation
Ch-16		Union Legislature	a. Three Organs of the Government. b. Division of Powers and functions between the Central and the State Governments. c. Parliament. d. Functions of the Parliament.	Brainstorming Discussion Explanation
Ch-5	Aug	American Civil War	a. Background. b. Causes. c. Course of the Civil War. d. Role of Abraham Lincoln	Brainstorming Discussion Explanation
Ch-6		Decline of the Mughal Empire	a. Factors behind the decline of the Mughal Empire.	Brainstorming Explanation
Ch-17		Union Executive	a. President. b. Vice-President. c. The Prime Minister. d. Council of Minister. e. Civil Servants.	Brainstorming Discussion Explanation
Ch-7	Sep	Rise of Regional Kingdoms	a. Marathas. b. Bengal. c. Awadh. d. Hyderabad. e. Mysore. f. Rajputs. g. Sikhs.	Brainstorming Discussion Explanation
Ch-8		East India Company and the Conquest of Bengal	a. Advent of the East India Company. b. Conquest of Bengal. c. Dual Government.	Brainstorming Discussion Explanation
Ch-18	Nov	Judiciary	a. Supreme Court. b. High Courts. c. Writs. d. Subordinate Courts	Brainstorming Discussion Explanation

S.N.	Month	Topic	Sub Concept	Activity
Ch-9	Dec	Expansion of British Power in India	a. Subsidiary Alliance b. Military Conquests. c. Doctrine of Lapse. d. Maladministration.	Brainstorming Discussion Explanation
Ch-10		British Rule in India - Impacts	a. Traditional Indian Economy. b. British Revenue System. c. Indian Crafts and Industries. d. Impact of the British Economic Policies. e. Introduction of Modern Education.	Brainstorming Discussion Explanation
Ch-11		1857: The Great Uprising	a. Causes of the Great Uprising. b. Main centres and leaders of the Uprising. c. Results of the Revolt. d. Nature of Uprising.	Brainstorming Discussion Explanation
Ch-12	Jan	Reforms and Reformers	a. Raja Ram Mohan Roy. b. Ishwar Chandra Vidhyasagar. c. Dayanand Saraswati. d. Jyotiba Phule. e. Annie Besant. f. Prarthana Samaj. g. Kandu Kuri Veersalingam. h. Sir Syed Ahmed Khan. i. Singh Sabhas and the Akali Movement.	Brainstorming Discussion Explanation
Ch-13		Rise of Nationalism in India	a. Factors responsible for the Rise of Nationalism in India. b. Growth of Political Associations. c. Indian National Congress.	Brainstorming Discussion Explanation
Ch-14		Struggle for Independence (1885-1916)	a. Moderate Phase. b. Radical Phase. c. Partition of Bengal. d. Swadeshi and Boycott Movement. e. Formation of the Muslim League. f. Surat Split. g. Morley- Minto Reforms. h. Home Rule League. i. Lucknow Pact.	Brainstorming Discussion Explanation
Ch-19	Feb	United Nations	a. Formation of the United Nations. b. Membership of the United Nations. c. Objectives of the United Nations. d. Major Organs of the United Nations. e. Achievements of the United Nations.	Brainstorming Discussion Explanation
Ch-15		Struggle for Independence (1916-1947)	f. India and the United Nations. a. Arrival of Mahatma Gandhi. b. Gandhian Methods of Protest. c. Mass Movements of Gandhiji. d. Simon Commission. e. Civil Disobedience Movement. f. Quit India Movement. g. Indian National Army. h. Muntbatten Plan	Brainstorming Discussion Explanation
Ch-20		Agencies of The United Nations	a. UNESCO b. UNICEF. c. WHO. d. ILO. e. FAO.	Brainstorming Explanation

STD 8 GEOGRAPHY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	L-1 Interpreting Topographical Maps	Identify land forms through contours Types of slopes Hill, Plateaus, Ridges Settlement patterns: Temporary and permanent Nucleated, dispersed and linear Interpret and analyses the given top sheet	
2	Jul	L-2 Population L-3 Migration	Distribution of population in the world Overpopulation and under population: meaning with examples of countries from the world Impact of overpopulation Factor affecting the population of a place, birth and death rate, immigration and emigration Composition of population - Age and sex, rural and urban; population pyramid. Types of migration, emigration, rural-urban and urban. Impact of migration on socioeconomic structure of the society Brain Drain: introduction, causes of brain-drain, positive and negative impact of brain-drain	How can you help in the task of educating people around you who have not had the chance to go to school? Discuss with your teachers. Government should allow immigrants from a war-torn country inside our borders' Hold the debate in class.
3	Aug	L-4 Urbanization L-5 Disasters	Urbanization – meaning and causes Positive and negative impacts of urbanization; satellite cities. Concepts of Smart Cities Natural and man-made disasters; Meaning and examples Case studies	Use your imagination: imagine that you have to draw up a plan for a new smart city. Give a name to your smart city and provide the location details. Then, with the help of the information available on the internet, prepare a project report detailing the infrastructure & amenities you would like to provide. Project work: with the help of your class teacher, prepare a plan to evacuate the children in your school if tremors are felt. <ul style="list-style-type: none"> • Number of exits. • Staircases. • Gates. • Open space. • Warning bell.

				<ul style="list-style-type: none"> Emergency phone Number.
6	Sep	L-6 Disaster Management	<p>Disaster management and its importance (in general); safety measures to be taken in case of floods, earthquake and fire</p> <p>Role of the government in disasters and its management</p>	Prepare a list of hazards at your home that can lead to disasters such as a sparking electrical sockets, leaking gas pipe in the kitchen, a broken window, etc
7	Oct		SA-I	
8	Nov	L-7 Asia- Political Division and Physical Features	<p>Location and extent East Asia, North Asia, South Asia, Western Asia</p> <p>Physiography: Northern lowlands, central highlands, plateaus, islands</p>	Using atlas and the internet, find out the countries that belong to the different regions and make a list of the countries, along with their capitals, in your notebook
9	Dec	L-7 continue		
10	Jan	L-8 Asia- Climate and Natural Vegetation	<p>Factors affecting Climate of Asia, Types of Climate: Tundra, Temperate, Tropical Desert, Equatorial.</p> <p>Natural vegetation and wildlife, Tundra, Taiga, Tropical Deciduous, Thorny, Equatorial</p>	Find out the temperature of the place you live in from the local newspaper or the internet. Record the maximum and minimum temperature for a week.
11	Jan	L-9 India- Political Division and Physical Features	<p>India- Its location and extent, its neighbouring countries</p> <p>Political divisions of India- States/ UTs and Capitals.</p> <p>Physiography Divisions of India- The Himalayas, Northern plains, peninsular plateau, Thar desert, Coastal regions, Islands</p>	With the help of your atlas, mark all the major India. Find the names of the cities that are on the banks of these rivers.
12	Feb	<p>L-10 India- Climate, Natural Vegetation, and Wildlife</p> <p>L-11 India- Human Resources</p>	<p>Factor effecting climate, Monsoon.</p> <p>Types of Natural vegetation; Tropical rain forest, deciduous forest, thorny, Tidal Forest, Mountain Forest</p> <p>Conservation of wildlife in India.</p> <p>National parks, biosphere reserve, wildlife sanctuaries</p> <p>Distribution of population in India</p> <p>Role of health and education in developing human resources</p> <p>Skilled and unskilled human resources on the socioeconomic development of the country</p>	<p>Collect data related to temperature and rainfall of some major Indian cities. On the basis of the data you have collected, draw conclusions about the climate of India.</p> <p>What can you do to help improve the skills of sanitation and domestic workers in your locality?</p>
13	Mar	Annual exam		

Syllabus for exams

Unit Test- 1 Ch- 1,2

SA-1-Ch- 3,4,5

Unit Test- 2 – Ch- 6,7

SA-2-Ch-8,9,10,11

Paper Style - 8

Unit Test 1& 2(20 marks)

Q1) –Objectives and map (as per syllabus) 10m

Q2)- Subjective 10m

SA-I and SA-II – 80 marks

Part-I Objectives and map (as per syllabus) 30m

Part-II Subjective (attempt any 5 out of 9) 50m

Types of objectives

- Choose the correct option
- Fill in the blanks
- Mark the wrong statements and correct them
- Match the columns

STD 8 BIOLOGY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	Ch.1 Transport of food and minerals in plants	<ol style="list-style-type: none"> 1. Transport of materials 2. Absorption of water and minerals in plants 3. Transportation system in plants (Xylem and Phloem) 4. Transpiration 5. Plant Nutrients 	<p>To demonstrate the process of osmosis through a potato.</p> <p>To demonstrate that water is given off during transpiration</p>
2.	Jul	Ch.2 Reproduction in Plants and Animals	<ol style="list-style-type: none"> 1. Reproduction in plants 2. Modes of reproduction <ol style="list-style-type: none"> (a) Asexual reproduction in plant (b) Sexual Reproduction in Plant (Parts of flower, Pollination and Fertilization process) 3. Sexual Reproduction in Human Reproductive organs (Male and Female) 	<p>Observation of slides under microscope of yeast, spirogyra and Amoeba.</p> <p>Study of floral parts of typical flower</p> <p>-</p>
3.	Aug	Ch.3 Ecosystems	<ol style="list-style-type: none"> 1. Ecosystem and its components 2. Food chains and food web 3. Abiotic components 4. Interdependence between organism 5. Forest ecosystem 	Study of different food chains
4.	Sep	Ch.4 Endocrine System	<ol style="list-style-type: none"> 1. Gland and its types 2. Endocrine glands in Human 3. Adolescence 4. Stress management 	Case study - On Diabetes and Goiter
5.	Oct	SA-I Exam		
6.	Nov	Ch.7 Health and Hygiene	<ol style="list-style-type: none"> 1. Health, Diseases and its types, 2. Prevention - Immunization and Vaccination 3. Habit forming substances and its harmful effects 4. First Aids 	Study of your or your family Blood group And Blood reports.
7.	Dec	Ch.6 Nervous System	<ol style="list-style-type: none"> 1. Neuron and its types 2. Human Nervous system 3. Reflex action 	Study of model of Brain.
8.	Jan	Ch.5 Circulatory System	<ol style="list-style-type: none"> 1. Human circulatory system <ol style="list-style-type: none"> (a) Blood and blood vessels (b) Heart and its structure (c) Heart related conditions (d) Blood groups (e) Lymphatic system 	Study of Human Heart.
9.	Feb	Ch.8- Food Production	<ol style="list-style-type: none"> 1. Bacteria and Fungi 2. Agriculture and Horticulture 3. Organic Farming and green revolution 4. Animal Husbandry 	Study of Agriculture practices on multimedia.
10.	Mar	SA-II Exam		

Syllabus

Unit test 1 Ch.1

SA 1 Ch. 2, 3,4

Unit test 2 Ch.7

SA 2 Ch. 5,6,8

Paper Style - 8

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 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 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)

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

STD 8 CHEMISTRY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	Ch-1 Matter	<ol style="list-style-type: none"> 1. Matter-A quick review 2. Kinetic Molecular Theory of Matter 3. Postulates of Kinetic Theory 4. States of Matter 5. Properties of Matter 6. Law of Conservation of Mass 	<ul style="list-style-type: none"> • To draw molecular arrangement in solids, liquids and gases.
2	Jul	Ch-8 Water Ch Ch-4 Atomic Structure	<ol style="list-style-type: none"> 1. Water 2. Dissolution of salts in water 3. True solution, Suspension and colloid 5. Water of Crystallization 6. Reactivity with metals 7. Hardness of water 1. Fundamental subatomic particles 2. Nucleus 3. Electronic Configuration 4. Formation of a molecule 	<ul style="list-style-type: none"> • To collect samples of water from different sources like hand pump, tap water, RO water and check the hardness of water through liquid soap on stirring. • To prepare atomic models as project work. • To learn electronic configuration
3	Aug	Ch-4 Continue... Ch-3 Elements, Compounds and Mixtures	<ol style="list-style-type: none"> 1. A quick review 2. Separation of mixtures 3. Principles of Separation of Mixtures 	<ul style="list-style-type: none"> • To separate the components of a mixture by Sieving and by Winnowing.
4	Sep	Ch-3 Continue...		
5	Oct		Revision for SA 1	
6	Nov	Ch-7 Hydrogen	<ol style="list-style-type: none"> 1. Hydrogen the first element 2. Discovery of Hydrogen 3. Occurrence of Hydrogen 4. Preparation of Hydrogen 5. Properties of Hydrogen 6. Uses of Hydrogen 7. Redox reaction 	Make a chart on " Hydrogen
7	Dec	Ch-9 Carbon and its compounds	Carbon <ol style="list-style-type: none"> 1. Allotropes of Carbon 2. Carbon dioxide 3. Carbon monoxide 	<ul style="list-style-type: none"> • To observe the use of Carbon dioxide in cooking.
8	Jan	Ch-9 Continue... Ch-5 Language of Chemistry	<ol style="list-style-type: none"> 1. Symbols of elements 2. Formulae of compounds 3. Chemical equations 4. Balancing simple equations 5. Information gathered from a Chemical Equation 6. Limitations of a chemical equation 	<ul style="list-style-type: none"> • To show Exothermic reaction. • To show Precipitation reaction. • To show Effervescence. • To show neutralization reaction.
9	Feb	Ch-2 Physical and Chemical changes Ch-6 Chemical Reactions	<ol style="list-style-type: none"> 1. Changes – A review 2. Physical changes 3. Chemical changes 1. Chemical reaction 2. Types of chemical reaction 3. Reactivity series 4. Predicting the reactivity of metals 	<ul style="list-style-type: none"> • To paste pictures related to physical change and chemical change • To observe the change in color in a chemical reaction. • Take a pinch of sodium carbonate in a testtube and add few drops of dilute

			5. Neutralization reaction 6. Endothermic and exothermic reactions Decomposition reaction to form oxides 7. Classification of oxides	hydrochloric acid. Record the observations.
10	Mar	Revision for SA 2		

PAPER STYLE - 8

UNIT TEST 1: Ch-1 (20marks)UNIT TEST 2: Ch-9 (20 marks)

Type of questions:-

Section A (10 marks)

Q.1) MCQs

Q.2) Fill in the blanks

Q.3) Answer in one word

Section B (10 marks)

Q.4) Answer in short

Q.5) A. Difference between

B. Equations

SA 1 : Ch-3, 4 & 8 (80marks)SA 2 : Ch-2, 5, 6 & 7 (80 marks)

Section A (40 marks) Attempt all the questions

Q.1) A. MCQs

B. Fill in the blanks

C. True and false

D. Name the following

Q.2) A. Definition with examples

B. Difference between

C. Give Scientific reasons

Q.3) A. Complete and balance the equations

B. Explain with examples

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

Type of questions in each question:-

- Experiment with labelled diagram
- Find out reactants/products from the given equation/reaction
- Properties
- Describe in detail
- Explain the terms
- Applications
- What happens when

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

STD 8 Physics

Sr. No	Month	Topic	Sub Topic	Activity
1	Jun	Ch-1 Matter	<ol style="list-style-type: none"> Kinetic theory of matter States of matter Change of state 	<ul style="list-style-type: none"> To predict kinetic theory of matter by adding food color to hot water and cold water beakers. In which water, food color mixes quickly. To show that particles of matter are very small in size.
2	Jul	Ch-2 Physical Quantities And Measurement Ch-3 Force and Pressure	<ol style="list-style-type: none"> Measuring density of regular & irregular solids Measuring density of fluids Relative density Sinking and floating Comparison of density in the three states of matter <ol style="list-style-type: none"> Turning effects of force Thrust & Pressure Pressure exerted by a gas and Atmospheric Pressure Liquid pressure 	<ul style="list-style-type: none"> To determine the volume of an irregular solid by using a measuring cylinder. To show a density bottle in the lab. To find out whether the different objects float or sink in a given liquid. To change pressure by changing force or changing area with the help of sharpened pencil and sponge. To study how liquid pressure works. To make simple siphon.
3	Aug	Ch-3 Continue... Ch-4 Energy	<ol style="list-style-type: none"> Work and Energy Different forms of energy Conversion of Kinetic energy to Potential energy Energy Transformation Power 	<ul style="list-style-type: none"> Paste pictures related to potential energy and kinetic energy in your interleaf book.
5	Sept	Ch-7 Sound	<ol style="list-style-type: none"> Sound Terms related to a sound wave 	<ul style="list-style-type: none"> Identify at least ten loud/soft, high/low pitch sounds and record your findings.
4	Oct	Revision for SA 1		
6	Nov	Ch-7 Continue...	<ol style="list-style-type: none"> Characteristics of Sound Musical Instruments 	
7	Dec	Ch-6 Heat transfer	<ol style="list-style-type: none"> Difference between boiling and evaporation Thermal expansion Applications of thermal expansion in daily life 	<ul style="list-style-type: none"> Some rare materials have negative thermal expansion. Prepare a report about them.
8	Jan	Ch-8 Electricity	<ol style="list-style-type: none"> Electricity at home Electric Fuse & Earthing Hazards of electricity Conservation of 	<ul style="list-style-type: none"> Fun activities on static electricity.

			charge 5. Conductors and Insulators 6. Electroscope 7. Atmospheric Electricity 8. Lightning 9. Cells and batteries	
9	Feb	Ch-8 Continue... Ch-5 Light Energy	1. Refraction of Light 2. Laws of Refraction 3. Refraction through a glass slab 4. Refraction through a prism 5. Spherical mirrors 6. Real and Virtual images 7. Important rules to draw a ray diagram 8. Use of Spherical mirrors 9. Dispersion of light	<ul style="list-style-type: none"> To prove that light rays bend as they travel from one medium to another. Dispersion of white light through a prism.
10	Mar	Ch-5 Continue... Revision for SA 2		

PAPER STYLE

UNIT TEST 1: Ch-1 (20marks)

Type of questions:-

Section A (10 marks)

Q.1) MCQs

Q.2) Fill in the blanks

Q.3) Answer in one word

Section B (10 marks)

Q.4) Answer the following questions

Q.5) Numerical

UNIT TEST 2: Ch-7 (20 marks)

SA 1 : Ch-2, 3 & 4 (80marks)

SA 2 : Ch-5, 6 & 8 (80 marks)

Section A (40 marks) Attempt all the questions

Q.1) A. MCQs

B. Fill in the blanks

Q.2) Diagram based questions

Q.3) Short Numerical

Q.4) Answer in one word (Formula, Unit, Concept based)

Section B (40 marks) Out of six questions answer any four questions each carrying 10 marks.

Type of questions in each question: - Each question has three parts.

- Numerical
- Define the terms
- Concept based questions
- Diagram based questions

Types of questions are subject to change for all the paper style.