

SYLLABUS 2019-20

CLASS - 7

Content

Maths

Eng Lan.

Eng Lit.

Sanskrit

Hindi

Biology

Chemistry

Physics

Geography

Hist. Civics

Computer

Maths - 7

S.N.	Month	Topic	Sub Concept	Activity
1	June	<p>Ch-1 Integers</p> <p>Ch-2 Factors and Multiples</p> <p>Ch-20 Graphical Representation of Data</p>	<ul style="list-style-type: none"> - Integers on a Number line - Absolute value - Comparison of integers - Addition of Integers and its properties - Subtraction of integers - Using a number line for addition and subtraction - Integer Multiplication - Division of integers - Properties of Division - Order of Mathematical operations - Word Problems - Prime and composite Numbers - Co-prime numbers - Factorization - Prime Factorization - HCF - LCM - Relation Between HCF and LCM - Data - Representative values and central Tendency - Bar Graphs - Double Bar Graphs 	<ul style="list-style-type: none"> - Worksheet - To understand the concept of H.C.F by a game of rolling a dice - To understand the use of bar graph and double bar graph in real life.
2	July	Ch-3 Fractions and Decimals	<ul style="list-style-type: none"> - Fractions - Types of Fractions - Comparison of Fraction - Addition and subtra of Fractions - Multiplication, Reciprecal and Divisions of Fractions - BODMAS Rule - Word Problems - Introduction to Decimals - Expanded form - Like and Unlike decimals - Conversion of Decimals - Recurring and Terminating Decimals - Converting Recurring Decimals into Fractions 	- Worksheet

S.N.	Month	Topic	Sub Concept	Activity
		Ch-4 Introduction to Rational Numbers	<ul style="list-style-type: none"> - Rounding off Decimals - Addition and subtraction of Decimals - Multilication of Decimals - Division of Decimals - Problem Solving using operations on Decimals - Number Classificaitons - Rational Numbers - Positive and Negative Rational Numbers - Representation of Rational Numbers on a Number line - Simplest or Standard Number - Comparision of Rational Number - Equivalent Rational numbers - Rational Numbers between two Rational Numbers - Addition - Subtraction - Multiplication - Division of Rational Numbers - Decimal Representation Of Rational Number - Recurring and Terminating Decimals - Word problems 	- Worksheet
		Ch-10 Fundamental concepts of Algebra	<ul style="list-style-type: none"> - Basic Termilogy of Algebra - Types of Algebraic Expressions - Algebraic Expressions and Formula - Formula construction - Substitution 	- Worksheet
3	Aug	Ch-11 Operations on Algebraic Expressions	<ul style="list-style-type: none"> - Addition and subtraction of Monomials - Addition and Subtraction of Polynomial - Simplification of Algebraic Expressions 	- Worksheet
		Ch-5 Powers and Roots	<ul style="list-style-type: none"> - Laws of Exponents - Scientific Notation of Number - Square Roots - Methods to find the Square root of a number - Cube Roots - Problems involving Roots 	- Worksheet
		Ch-6 Sets	<ul style="list-style-type: none"> - Basic Definations - Representation of Sets 	- Worksheet

Maths - 7

S.N.	Month	Topic	Sub Concept	Activity
			<ul style="list-style-type: none"> - Cardinal Number - Types of sets - Other Types of Sets 	
4	Sept	Ch-13 Lines and Angles Ch-14 Triangles and their Properties	<ul style="list-style-type: none"> - Basics of Geometry - Types of Lines Angles - Transversal - Triangle - Interior and Exterior Angles of a Triangle - Classification of Triangles - Medians and Altitude of a Triangle - Properties of a Triangle 	<ul style="list-style-type: none"> - Activity to prove vertically opposite angles are equal - Activity to prove that sum of all the angles in the interior of a triangle is 180°.
5	Oct.			
6	Nov	Ch-7 Ratio and Proportion Ch-8 Unitary Method and Average	<ul style="list-style-type: none"> - Ratio - Equivalent Ratios - Proportion - Continued Proportion - Direct and Inverse Proportions - Introduction to Unitary method - Time and Work problems - Time, speed and Distance problems - Average and Arithmetic mean 	<ul style="list-style-type: none"> - Worksheet - Worksheet
7.	Dec.	Ch-9 Percentage and its Applications Ch-12 Linear Equations and Inequalities	<ul style="list-style-type: none"> - Interconversions - Evaluate the Percentage of a Quantity - An Amount as a percentage of Another Amount - Applications of Percentage - Percentage of Profit or loss - Introduction to Equations - Linear Equations - Inequalities 	<ul style="list-style-type: none"> - Worksheet
8.	Jan.	Ch-16 Constructions Ch-17 Representing 3D in 2D	<ul style="list-style-type: none"> - Basic Constructions - Construction of Triangles - Properties of various solids - Construction of Nets of Solids - Drawing solids on a Flat surface - Visual Estimation of solids - Visualizing a solid by Cutting or Slicing and by its Shadow 	<ul style="list-style-type: none"> - Worksheet -Worksheet

Eng Language - 7

S.N.	Month	Topic	Sub Concept	Activity
1	June	Ch-1 Phrases Ch-2 Clauses Vocabulary	<ul style="list-style-type: none"> - Revision of noun phrases, adjective phrases and adverb phrase - Adverb phrases of time, place and manner - Composition -Descriptive - Letter- writing in formal - Nouns clause, adverb clause and adjective clause - Synonyms - Antonyms - Collocation 	<ul style="list-style-type: none"> - Write 10 phrases of your own. - Use given clauses in Sentences
2	July	Ch-3 Nouns Ch-4 Adjectives Writing	<ul style="list-style-type: none"> - All about nouns, Noun case - Formation of nouns , Nouns as objects of prepositional phrases - Types of adjectives - Degree of adjectives - Formation of adjectives - Identifinite numeral adjectives - Notice - Invitation 	<ul style="list-style-type: none"> - Make a flow chart with examples. - Adjective Games.
3	Aug	Ch-5 Pronouns Ch-6 Verbs Ch-7 Auxiliary verbs Vocabulary	<ul style="list-style-type: none"> - All about pronouns- personal, possessive, interrogative, demonstrative, indefinite, relative, reflexive and emphatic - All about verbs, Transitive and intransitive verbs, - Subject-verb agreement - Finite and non-finite Verbs - Complements of Verbs - Modals - Auxiliaries - Onomatopoeic - Alliteration - Assonance 	<ul style="list-style-type: none"> Edit paragraph using pronouns Write your daily routine
4	Sep	Ch-8 Tenses	<ul style="list-style-type: none"> - Revision of types of tenses - Present, past and future perfect continuous tenses 	<ul style="list-style-type: none"> - Mind map
5	Oct	SA-1 Exam		
6	Nov.	Ch-9 Adverbs	<ul style="list-style-type: none"> - Types of adverbs - Relative adverbs 	<ul style="list-style-type: none"> Describe picture with various adverbs

Eng Language - 7

S.N.	Month	Topic	Sub Concept	Activity
		Vocabulary	<ul style="list-style-type: none"> - Degrees of comparison - Irregular adverbs - Formation of adverbs - Adverb phrases - Position of adverbs - Metaphor - Similie 	
6	Dec	Ch-10 Prepositions Composition Ch-11 Conjunctions Writing	<ul style="list-style-type: none"> - Revision of Prepositions - Prepositional phrases - Prepositions and conjunctions - Argumentative - Conjunctions - Coordinating, subordinating and correlative conjunctions - Email 	<ul style="list-style-type: none"> - Picture composition - Highlight the conjunctions in newspaper report
7	Jan	Ch-12 Determiners Ch-13 Punctuation Ch-14 Types of Sentences Vocabulary	<ul style="list-style-type: none"> - Types of determiners - Omission of articles - Revision of different punctuation marks - Simple, compound and complex sentences - Transformation of sentences - Email writing - Personafication 	Class - interaction <ul style="list-style-type: none"> - Chart on punctuation marks and its uses. Group Discussion
8	Feb	Ch-15 Reported Speech Writing : Ch-16 Voice Writng	<ul style="list-style-type: none"> - Change of tenses in reported speech - No change in reported speech - Changing questions into reported speech - Change of pronouns - Change of possessive adjectives - Reporting verbs - Changing expressions of time and place - Rules for changing indirect to direct speech - Report writing - Using passive voice - Transitive verbs changing voice - Rules for changing voice - Changing pronouns when changing voice - Story - Letter - Comprehension 	<ul style="list-style-type: none"> - Flow chart on Rules of speech Transformation - Flow chart
9	March	Revision		

Eng Lit - 7

S.N.	Month	Topic	Sub Concept	Activity
1	June	L-1 The Adventure of the Mason P-1 A Night with a wolf	- To Comprehend the text, deduce meaning of new terms. (adventure) - To appreciate text and develop new vocabulary, all iteration	Writing a story Class Interaction
2	July	L-2 A Mery Christmas L-3 Raniket's Gift	- Society, compassion punctuations - Travel and Tourism making sensible sentences with words associated with travel.	Writing story summary Describing a travel experiences.
3	Aug	L-4 Tippity the FLYing Squirrel P-2 Daffodils L-5 The stolen Bacillus	- One word for many figure of speech writing of answers of set questions. - Poetry appreciation figure of speech simile - Science fiction word stress formation of spellings	-Telephone Conversation Similie Describing a process
4	Sep	L-6 Panchlight	- Fictional narrative phrasal verbs with- bring Revision SA-1 Exam	Retelling a regional story in English
5	Oct	Exam		
6	Nov	P-3 The secret of the Machines L-7 Travelling Through the country side	- Appreciation of the text stanza forms - Descriptive narrative by nouyms common by confused words	Group discussion Write a travelogue
7	Dec	L-8 When the Fish laughed	- Dramatized folk tale Stress shift in nouns and verbs	Narrating a story
8	Jan	P-4 My Native Land L-9 The Great Mouse Plot L-10 What Katy Did	- Poetry appreciation poetic license - Autobiographical account Antonyms sebtence stress - Third person narrative Idioms	Recitation NewspaperReport Writing an invitation
9	Feb	P-5 Crabbed Age and Youth L-11 Instead of the war Drum L-12 The Chocolate Cream soldier	- Poetry appreciation personification - Historical narrative Idioms related to weapons one word for many - (Play) Non- English root words Intonation	Group Discussion Writing a biographical Sketch Occupational hazard
10	March	P-6 Indian Weavers	- Poetry appreciation Stanzaic pattern, rhyme scheme rhyming couplet alliteration	Rhyme Scheme
11	April	Revision- SA-2 Exam		

Paper Style

Unit.Test - 1

L-1, P-1

Unit. Test - 2

L-7, P-3

Questions

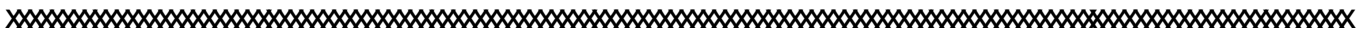
1. a. True or False
b. F / B
c. Choose the correct option
2. a. Write word meaning / Opposite
b. Make your own sentences
3. a. Answer the following
b. Reference to context

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

SA-2 Ch-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 / Opposite
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



Sanskrit- 7

S.N.	Month	Topic	Sub Concept	Activity
1	June	०१. वर्णमाला ०२. वन्दना १. भारतवर्षः	- स्वराः - व्यञ्जनाः - अनुनासिक् वर्णाः - संयुक्त व्यञ्जनवर्णाः	-विभक्ति - table practice
2	July	२. शान्तिदूतः कपोतः ३. बालो विद्यालयगामी ४. एकतायां बलमस्ति	- लङ्.लकार - भूतकाल (परस्मैपद) - विशेषपदस्य योगे विभक्तिः - लट् लकार - वर्तमान (आत्मनेपद) - कृ-विशेषप्रयोग - उपसर्गाः (१०३)	- भूतकाल table and sentence Practice - पक्षिणः वैशिष्ट्य - 'कृ' table practice
3	Aug	५. चन्द्रशेखरः आजादः ६. अमूल्यानि मौक्तकानि ७. आयुर्वेदः स्वास्थ्यलाभाय	- लङ्.लकार (परस्मैपद) - असधातु (लङ्.) - एकवचनम् - बहुवचनम् - प्रश्ननिर्माणम् - सन्धि (१०१) - संयोग (३४)	- अस,कृ table practice -स्वतन्त्रता सेनानि नामानि - कीम् table practice - Script writing
4	Sept	८. अभ्यासेन किं न सिध्यति पुनरावर्तनम्	- लट्-लङ्. लकार - स्म प्रयोगे पुनरावर्तनम्	- लट्-लङ्. table practice
5	Oct	SA-1 Exam		
6	Nov	९. धन्याः भारतीयाः महिलाः	-सन्धि (स्वर-५२) -लङ्.लकार (परस्मैपद-आत्मनेपद-५५)	- लङ्.-लकार table practice
7	Dec	१०. विदेशयात्रा वर्णनम् ११. वर्ष वर्ष ई वर्षा मेघ १२. दीपोत्सव	- प्रत्ययाः (१०४) - विशेष विभक्ति (५९) - लोट् लकार (परस्मैपद) - विशेषण-विशेष्य	- table practice of लोट्-लकार
8	Jan	१३. सामान्यज्ञान प्रतियोगिता १४. सन्मित्रं पुण्येन लभ्यते	- लङ्.लकार - कृदन्त - प्रत्ययाः (१०४)	
9	Feb	१५. तेनाली रामस्य चातुर्यम् संख्या (१ से ५०) - व्यावहारिक शब्द सूची	- विभक्ति ,सन्धि - पुनरावर्तनम् - अव्ययानि	
10	March	- अपठित - कथा वर्णनम् - वार्तालापः - चित्र वर्णनम् - सूक्तयः - व्यवहार वाक्यानि	- पुनरावर्तनम्	
11	April	SA-2 Exam		

Paper Style

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

- प्र-1. समानार्थक पद
 2. वर्णमाला
 3. लङ्.लकार (परस्मैपद)
 4. रिक्तस्थानानि पूर्यत (विशेषपद विभक्ति)
 5. विकल्पेभ्यः उचितं शब्दं लिखत ।
(विभक्ति)

प्र-2. पद्यांश पूर्यत Lesson no-3

प्र-3. प्रश्ननिर्माणं कुरुत

प्र-4. संयुक्त व्यञ्जनवर्णाः

प्र-5. पूर्णवाक्येन उत्तरत ।

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

1. अपठित
2. वर्ण संयोजन
3. सन्धि + संयोग
4. पूर्णवाक्येन उत्तरत
5. कस्य रचना का ?
6. कः अवदत् ? पदानि
7. समानार्थक पदानि
8. प्रश्ननिर्माणं कुरुत ।
9. शब्दस्य अर्थ
10. लङ्.लकार
11. स्म प्रयोग

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

1. समुचितं मेलनं कुरुत ।
2. पर्याय शब्द
3. पद्यांश पूर्णं करोति ।
4. संधि कुरुत ।
5. विपरितार्थकं पदं
6. पूर्णवाक्येन उत्तरत
7. विकल्पेभ्यः उचितं पदं चित्वा लिखत ।
8. लोट् लकार
9. प्रत्ययाः

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

1. अपठित
2. चित्रं दृष्ट्वा वाक्यानि रचयत ।
3. वार्तालापः ।
4. कथा पूर्यत ।
5. नामानि लिखत
 1. पुष्पाणि
 2. शाकाः
 3. रसाः
 4. वासराः
 5. दैनिक वस्तुनि
 6. संख्या - (१ से ५०)
6. विकल्पेभ्यः उचितं पदं चित्वा लिखत ।
7. पूर्णवाक्येन उत्तरत ।
8. विपरीतार्थकपदानि लिखत ।
9. पर्यायशब्दाः
10. धातुरुपैः
 1. लट्
 2. लङ्.
 3. लोट्
 4. लृट्
11. नामरूप -
 1. पुल्लिङ्ग
 2. स्त्री
 3. नपु
11. सन्धि कुरुत
12. सन्धिच्छेदं कुरुत ।
13. कृदन्त
14. अव्ययानिः
15. सूक्तयः

Hindi- 7

S.N.	Month	Topic	Sub Concept	Activity
1	June	१. वीर २. निर्णय का अभिवादन पत्र लेखन	-वीरता, सत्य, आत्मविश्वास और गुणों की पहचान - निस्वार्थ देश-सेवा,सैनिक-जीवन-निर्णय लेने की क्षमता	- समूह गान - समूह चर्चा
2	July	३. रूचियों का ज्ञान ४. दिन दोपहर में शाम, निबंध/अपठित गद्यांश	- बचपन की शरारतें, जीवन के विभिन्न पक्ष - प्राकृतिक सौंदर्य, जीव जंतुओंके प्रति आदर-भाव विषय पर विचार-विमर्श	- रूचियों पर चर्चा - काल्पनिक वर्णन चर्चा
3	Aug	५. मनभावन सावन ६. अंतरंग पत्राचार व्याकरण कार्य	-ऋतु प्रभाव, वातावरण में बदलाव मित्रता, उत्साह वर्णन, सकारात्मक सोच	- समूह चर्चा - पत्र लेखन
4	Sept	७. नमक सत्याग्रह ८. पैसो का पेड़ विलोम / समानार्थी	- सत्याग्रह, आत्मसम्मान, समर्पण दृढविश्वास - सत्यवादिता, कुशलता, परोपकार आपसी संबंध, शब्दभण्डार	- समूह चर्चा - वाद-विवाद-अभ्यास
5	Oct.	Exam		
	Nov	९. सिंदबाद १०. बंदनी जननी लिंग, वचन विशेषण	- हास्य विनोद/आनंदानुभव, बुद्धिमता - स्वार्थीनता, देशप्रेम, त्याग समर्पण - शब्दों का वर्गीकरण	- समूहचर्चा - कविता गान - अभ्यास - डिक्टेसन
6	Dec	११. असीम अजीम प्रेमजी १२. तिलक की लोकप्रियता	- लगन,परिश्रम, समाजसेवा-त्याग देशभक्ति, आत्मविश्वास, स्पष्टवादिता	- अभिनय परिचर्चा
7	Jan	१३. माथा गजनंदन जी १४. गुड़-गुड़ बच्चन (व्याकरण)	- आपसी संबंध /परस्पर प्रेम सहयोग नामकी सार्थकता एवं महत्त्व	- अभिनय समूह चर्चा
8	Feb	१५. कुरल सप्तक १६. हिंदी की ब्यार पत्र लेखन १७. मशीनी मानव १८. सम्मान की वापसी	- विश्वमैत्री, समयकी उपयोगिता भाषा का महत्त्व शिक्षण व्यवस्था - कृत्रिमता, काल्पनिकता, वैपारिकता मेहनत धैर्य व सकारात्मक सोच	-समयसारिणी बनवाना डायरी लेखन - समूह चर्चा समूह चर्चा
9	March	व्याकरण अभ्यास		डिक्टेसन
10	April	Exam		

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 - 7,8,9)

1. निबंध - 10
2. अवतरण - 10

SA-1 (80)

Lesson- 1 to 6

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

SA-2 (80)

Lesson- 10 to 18

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

History/Civics - 7

S.N.	Month	Topic	Sub Concept	Activity
CH -1	JUNE	Rise of Christianity	a. The Medieval Era. b. Beginning of Christianity c. Rise of Christianity as a new faith.	Brainstorming Discussion Explanation
CH - 2		Spread of Christianity	a. Decline of the Roman Empire. b. Spread of Christianity c. Crusades d. Monasteries and their impact	
CH -3	JULY	Islam and its Spread - Rule of the Caliphates	a. Pre-Islamic Conditions in Arabia. b. Prophet Muhammad. c. Caliphate. d. Achievements of the Arabs.	Brainstorming Discussion Explanation
CH-4		Advent of Islam in India: The Turkish Invasions.	a. India and the Arab World b. Turkish Invasions c. Reasons Behind the Success of the Turks.	
CH-5	AUG	Consolidation: The Mamluks	a. The Mamluk Dynasty. b. Qutubuddin Aibak c. Iltutmish d. Ghiyasuddin Balban	Brainstorming Discussion Explanation
CH-6		Expansion: The Khaljis	a. Khaljis b. Alauddin Khalji. c. Reforms d. End of the Khalji Rule	
CH-7	SEP	Decline: The Tughlaqs, Sayyids, and Lodis	a. Ghiasuddin Tughlaq b. Muhammad bin Tughlaq c. Firoze Shah Tughlaq d. Invasion of Timur. e. Sayyid Dynasty f. Lodi Dynasty.	Brainstorming Discussion Explanation
CH-14		Constitution of India	a. Meaning of Constitution. b. Role of Constituent Assembly. c. Framing the Constitution. d. Preamble.	
CH-8	NOV	Life, Society, and Culture	a. Society. b. Culture	Brainstorming Discussion Explanation
CH-9	DEC	Regional Powers in South India	a. Vijanagar Kingdom b. Bahamani Kindom	Brainstorming Discussion Explanation
CH-10		Foundation of the Mughal Empire.	a. Babur. b. Humayun. c. Sher Shah Suri.	
CH-11	JAN	Rule of Akbar	a. Bairam Khan's Regency. b. Expansion of Empire by Akbar. c. Administration d. Religious Policies. e. Achievements.	Brainstorming Discussion Explanation

S.N.	Month	Topic	Sub Concept	Activity
CH-12	JAN	Jahangir, Shah Jahan, Aurangzeb	a. Jahangir. b. Shah Jahan c. Aurangzeb	Brainstorming Discussion Explanation
CH-13	FEB	Bhakti and Sufi Movements	a. Sufiism. b. Bhakti Movement. c. Impact of Bhakti and Sufi Movements.	Brainstorming Discussion Explanation
CH-15	MAR.	Directive Principles of State . Policy	a. Welfare State. b. Directive Principles of State Policy. c. Fundamental Rights. d. Fundamental Rights and D.P.S.P. e. Implementation of Directive Principles.	Brainstorming Discussion Explanation

Syllabus for exams

Unit Test - 1 Ch - 1,2

SA-1- Ch - 3,4,5,6,7,14

Unit Test - 2 Ch - 8,9

SA-2- Ch - 10,11,12,13,14,15

Paper Style

Unit Test 1 & 2 (20 marks)

Q.1 - Short answer questions. 5 questions 10m

Q.2 - Answer the question in detail (any 1) 10m

SA - I and SA - II - 80 marks

Part 1 (30 Marks)

Section - A

Q.1 10 questions of 1 marks each (Civics) 10m

Q.2 10 questions of 2 marks each (History) 20m

Part 2 (50 Marks)

Section - A (Civics)

Attempt any 2 questions from this section.

3 questions having 3 parts of 3,3 & 4 Marks. 20m

Section - B (History)

Attempt any 3 questions from this section.

5 questions having 3 parts of 3,3 & 4 Marks. 30m

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

STD 7 Geography

S.N.	Month	Topic	Sub Concept	Activity
1.	June	Ch.1 Introduction to topographical maps Ch. 2 Importance and structure of the atmospheres	- Reading the topographical maps - Map Scale - Measuring Distances. - Composition of the Atmosphere - Importance of Atmosphere.	Diagram Showing layers of Atmosphere.
2.	July	Ch.3 Global warming and the Green house effect Ch. 4 Weather and Climate	- The Green house effect - Global warming - Ozone depletion - Elements of weather and climate - Atmospheric pressure - Condensation - Isotherms and Isohyets - Winds.	Paste picture to show Consequences of Global Warming. forecast the weather of 1 week and make a graph.
3.	Aug.	Ch.10 Europe political divisions and physical Features. Ch. 11 Europe - Climate Natural Vegetations and wildlife. Ch. 16 Antarctica	- Locations and Extent - Physical features - Water bodies - Climate - Climatic Zone - Case Study - Discovery and exploration - Physical features - Climate - Vegetation and wildlife - Natural Resources - Human void zone.	Map Activity Map Activity
4.	Sep.	Ch.5 Rocks Ch. 6 Weathering and soil formation.	- Types of Rocks - Igneous - Sedimentary - Metamorphic - Significance of Rock - Weathering - Soil formation - Soil profile - Soil conservation.	Collect the picture of different rock and state its features. Discussion on types of soils.
5	Oct.	Revision & Exam		
6.	Nov.	Ch.7 Need and classifications of Industries Ch.8 Major Industries of the world	- Need for industries in the world - Types of Industries - Factors Responsible for - Iron and steel industry - Fishing industry - Cotton textile industry - Industrial pollution.	List the top 10 industries in world.
7.	Dec.	Ch. 9 Energy and power Resources. Ch.12 Africa-Political Divisions and physical features.	- Sources of Energy - Renewable Energy sources - Non-Renewable Energy Sources. - Location and Area of Africa - Physical features - Political Divisions - Rivers and lakes.	- Write 5 ways, how you can re use the water Eg. for washing vegetables. Map Activity
8.	Jan.	Ch. 13 Africa - Climate Natural Vegetation and wildlife.	- Climate - Climatic zones of Africa - Case Study	Map Activity

STD 7 BIOLOGY

SR.NO	Month	Topic	SUBTOPIC	Activity
1	Jun	Ch:1 Tissues	Plant tissues classification 1. Meristematic tissue 2. Permanent tissues - a) Simple permanent tissues b) Complex permanent tissue Animal tissues classification 3. Epithelial tissue, Muscular tissue, Nervous tissue and Connective tissue	Study of plant and animal tissues by permanent slides.
2	Jul	Ch: 1 continues Ch: 4 Plant life- a) Photosynthesis	1. Meaning and process of photosynthesis 2. Structure of stomata 3. Factors that affect photosynthesis. 4. Significance of photosynthesis	Study the experiments of Photosynthesis
3	Aug	Ch: 4 continues b) Respiration Ch: 5 The human body- a) Excretory System	1. Importance of Respiration 2. Types of Respiration 3. Respiration in plants 1. Excretory Products 2. Excretory system 3. Common disorders of the urinary system	Videos on respiration in plants Study the model of excretory system
4	Sep	Ch-5 continues b) Nervous system	1. Nervous system and its organs 2. Structure of brain and spinal cord 3. Reflex action	Study the model of brain
5	Oct	SA-I Exam		
6	Nov	Ch:6 Allergy	1. Allergens, its types and route entries 2. Types of allergies 3. Symptoms of Allergies 4. prevention and care	Group discussion
7	Dec	Ch:2 Classification of the living world	1. classification and its advantages 2. 5 kingdom classification 3. Useful and harmful bacteria	Study of different organisms by permanent slides and plant specimens

8	Jan	Ch: 2 continues	4. Amoeba and its life processes 5. Useful and harmful fungi	-
9	Feb	Ch: 3 Classification of animals	Kingdom animal- Invertebrates and vertebrates	Study of animal specimens
10	March	REVISION		
11	Apr	SA-II Exam		

Syllabus for exams:

Unit test 1: Ch -1

SA: 1 Ch- 4, 5

Unit test 2: Ch -6

SA: 2 Ch- 2, 3

Paper style - 7

Unit test 1 and 2 (20 marks)

Q.1 Multiple questions

Q.2 Fill in the blanks

Q.3(a) Concept based one word answer

(b) True / false.

Q.4(a) Difference between

(b) Match the following

Q.5 (a) Short answer questions.

(b) Long answer questions and picture/ diagram based questions.

SA.1 and SA.2 (80 marks)

Q.1(a) MCQs

(b) Fill in the blanks

(c) True / False

Q.2 (a) Name the following

(b) Match the following

(c) Circle the odd one out giving reason

Q.3(a) Difference between

(b) Give reasons

Q.4 (a) Short answer questions

(b) Long answer questions

Q.5 (a) Picture based questions

(b) Draw a labelled diagram

STD 7 CHEMISTRY

SR.NO	Month	Topic	SUBTOPIC
1	Jun	Ch-1 Matter and its composition	Matter Properties of matter Composition of matter Three states of matter Forces that keep constituents of matter together
2	Jul	Ch-1 Continue... Ch-7 Air and Atmosphere	Composition of air Nitrogen and its Uses Oxygen, its properties and uses Carbon dioxide and its uses Air Quality Acid rain
3	Aug	Ch-7 Continue... Ch-6 Metals and Non-metals	Properties of Metals and on metals Uses of Metals and Non-metals Corrosion of metals and its prevention Properties and uses of metalloids
4	Sep	Ch-6 Continue...	
5	Oct		Revision for SA 1
6	Nov	Ch-3 Elements, Compounds and Mixtures	Elements and compounds and their representation Mixtures and its difference with compounds Types of mixtures Separation techniques Chromatography
7	Dec	Ch-4 Atomic Structure	Atoms, molecules and radicals Significance of valency of elements and radicals Periodic Table
8	Jan	Ch-4 Continue... Ch-5 Language of Chemistry	Chemical reactions Chemical equations
9	Feb	Ch-2 Physical and Chemical changes	Classification of changes Categorizing Physical changes categorizing Chemical changes
10	Mar	Ch-2 Continue...	

PAPER STYLE - 7

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 in short
Q.5) A. Difference between
 B. Equations

UNIT TEST 2 : Ch-4 (20 marks)

SA 1 : Ch-6 & 7 (80marks)

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

SA 2 : Ch-2, 3 & 5 (80 marks)

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 is subject to change for all the Paper Styles.

STD 7 Physics

Sr. No	Month	Topic	Sub Topic	Activity
1	Jun	Ch-1 Physical Quantities Measurement	<ol style="list-style-type: none"> Volume Area Density Speed Numerical 	<ul style="list-style-type: none"> To measure the volume of an irregular solid. Measurement of area of an irregular shape (a leaf) using graph paper
2	Jul	Ch-2 Force and Pressure : Motion	<ol style="list-style-type: none"> Rest and motion Types of motion Concept of distance and speed Velocity Mass and Weight 	<ul style="list-style-type: none"> To show spring balance and beam balance. To stick pictures related to different types of motion. Make a list of things being measured using spring and beam balance in the nearby shops.
3	Aug	Ch-2 Continue... Ch-4 Reflection of Light and colours	<ol style="list-style-type: none"> Reflection Laws of Reflection Formation of images by a plane mirror Light and Colour 	<ul style="list-style-type: none"> To show plane mirror in the lab. To prepare models of Periscope, Pinhole camera and Kaleidoscope. Make a spectrum of colors using a mirror and sunlight.
4	Sep	Ch-4 Continue... Ch-3 Energy	<ol style="list-style-type: none"> Energy Forms of energy Law of conservation of energy Interconversion of Energy 	<ul style="list-style-type: none"> Find examples from daily life that involve transformation of energy. Find out the ingredients behind a packet of biscuits or chips and how much energy each 100g of that product gives?
5	Oct	Revision for SA 1		
6	Nov	Ch-3 Continue... Ch-7 Sound	<ol style="list-style-type: none"> Sources of sound Sound as a longitudinal wave Sound needs a medium to propagate Characteristics of sound wave Reflection and absorption of sound Relative speed of sound in different mediums 	<ul style="list-style-type: none"> To show Tuning fork and vibrations produced by it. To show that sound travels more effectively through solids than through air. To show that sound is produced by vibrating body. To show that sound causes waves in the surrounding medium.
7	Dec	Ch-7 Continue...		
8	Jan	Ch-5 Heat	<ol style="list-style-type: none"> Heat as a form of energy Concept of temperature Effects of Heat Application of thermal expansion 	<ul style="list-style-type: none"> To observe convection currents in a liquid.
9	Feb	Ch-6 Heat Transfer	<ol style="list-style-type: none"> Conduction Convection Radiation Thermos Flask 	<ul style="list-style-type: none"> Self activity: To observe ironing of a silk cloth with paper on it. This shows transfer of heat from one body to another. To show the interchange of the states of matter by heating or cooling.
10	Mar	Ch-8 Electricity	<ol style="list-style-type: none"> Electric Current Electric Potential Electrical Resistance Electricity and its sources Electric circuit and symbols 	<ul style="list-style-type: none"> To show different components of an electric circuit and explain their working in brief
		Revision for SA 2		

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

UNIT TEST 2: Ch-3, 7 (20 marks)

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

SA 2 : Ch- 5, 6, 7 & 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.