

DELHI PUBLIC SCHOOL

Bokaro Steel City

TERM AND MONTH-WISE SPLIT-UP SYLLABI OF CLASS – X FOR THE SESSION 2018-2019

Subject: English Communicative

- Text Books:**
1. Interact in English, Main Course Book
 2. Interact in English, Literature Reader
 3. Interact in English, Work-Book
 4. The Story of my Life – Hellen Keller (Prescribed Reading Book)

Month	W. Days	Book/ Area	Unit/Chapter	Activities
April	21	LR	Prose: 1. Two Gentlemen of Verona 2. Mrs. Packletide's Tiger	1. Anecdote related to the chapter as Introduction.
			Poem: Frog and the Nightingale	2. PPT on Tiger Awareness 3. PPT on the poem.
		MCB	1. Health and Medicine	Interaction with PE teachers.
			1. Determiners	PPT based on the unit, value cards & chart paper display, class newspaper.
May	05	WB	Chapter – 1 to 5	Themes – 'Environment Food & Exercise Caring and Sharing'
			PR	5. Bio-sketch, Descriptive Writing, Diary entry
		LR	1. Dear Departed (Drama)	Anecdote of the Chinese fable, about the story of 'earthen pot' – behavior towards old people.
			2. Tenses, 3. Subject Verb Agreement 4. Non-Finites	Value based activities on 'Sharing', 'Compassion' 'Relationships'.
June	15	WB	Chapter – 6 & 7	
			PR	
		LR	4. Poem : Mirror 5. Prose: The Letter	Anecdotes: Story of snow white – mirror & the cruel queen. Showing & Explaining the Importance of letters, words of love in today's fast moving world. Speaking and Listening skills Value based activities
			MCB	Unit 2: Education
July	22	WB	5. Relatives 6. Connectors 7. Conditionals	
			PR	Chapter – 8, 9 & 10
		LR	Poem: Not Marble, nor the Gilded Monuments	Inclusive teaching – Importance of Monuments in History. Introduction about Shakespeare – the poet.
			MCB	Unit 3 Science
August	22	WB	8. Comparisons 9. Avoiding Repetition	Value Based activities: Team work, Fostering respect' Good Behaviour – Inclusive teaching by

		PR	Chapters – 11, 12, 13, 14	Science teacher – on use of day to day science.
September	19	-	Revision Half Yearly Examination Poem : Ozymandias Prose : A Shady Plot	
October	18	LR	Drama : Julius Caesar	Movie on Julius Caesar through Smart Board.
		WB	10. Nominalization, 11. Modals 12. Active & Passive	Letter writing 1. Enquiry 2. Complaint 3. Placing order
		MCB	Unit 4 – ‘Environment and National Integration’	Value based activities on Honesty and Integrity, Conflict resolution, law and order
		PR	Chapter – 15, 16,17, 18, 19, 20	Speaking & Listening skills practice PPT on snake and its habitat PPT on fundamental duties, value cards on patriotism, compassion, respect for life
November	10	LR	Prose : Virtually true Patol Babu Rime of Ancient Mariner (Poem)	Anecdote on the stories, from Satyajit Ray movies collection.
		MCB	Unit – 5 'Travel & Tourism'	Telling the class about the complete story of the Ancient Mariner.
		WB	13. Reported Speech 14. Preposition	PPT on ‘Travel & Tourism’ Inclusive teaching by commerce teacher on Tourism Industry.
		PR	Chapter – 21 - 23 Revision Annual Examination (Complete Syllabus of Term I & Term II)	Revision of different writing formats through Smart Board

Note: Exercises & sample papers for revision would be done.

Subject : Communicative Skills

Month	W. D.	Unit / Chapter
April + May	21 + 05	<ul style="list-style-type: none"> • Brilliant Scholar • Reformer: Swami Vivekananda Recitation • The Little Black Boy by William Blake
June	15	<ul style="list-style-type: none"> • Debate on relevant topics Extempore and group discussion
July	22	<ul style="list-style-type: none"> • Role Play: Helping the needy Narrating events and incidents
August	22	<ul style="list-style-type: none"> • La Belle Dame Sans Merci – By John Keats • General Knowledge / group discussion
September	19	<ul style="list-style-type: none"> • Elocution – Self composed poem / speech on national issues & Revision <p>Half Yearly Examination</p>
October	18	<ul style="list-style-type: none"> • Speeches – Prime Minister Indira Gandhi’s , Swami Vivekananda • Narrating Humorous experiences • Group Discussion(Current topics)
November	16	<ul style="list-style-type: none"> • Narrating events and situations that inspires us (Patriotic or Mythological) • Extempore • Significance of coherence stress and emphasis while speaking
December	20	<ul style="list-style-type: none"> • Reading with precision • Word game: Vocabulary enhances • G.D. (current topics) • Elocution
January	17	<ul style="list-style-type: none"> • Extempore: Social Evils Narrating: Reporting incidents appropriately.

February 21

- Expressing sympathy and offering condolences.
 - Group Discussion
 - General Knowledge and Current affairs
 - Revision
- Second Terminal Examination

विषय – हिन्दी

निर्धारित पुस्तकें –

1. क्षितिज, भाग – 2 (एन.सी.ई.आर.टी.)
2. कृतिका, भाग – 2 (एन.सी.ई.आर.टी.)
3. सरस्वती व्याकरण तथा निधि – न्यू सरस्वती हाउस प्रा. लि.

माह	कार्य-दिवस	निर्धारित पाठ्यक्रम	गतिविधियाँ / मूल्यबोध परियोजना
अप्रैल	21	क्षितिज – गद्य खंड – स्वयं प्रकाश – नेताजी का चश्मा पद्य खंड – सूरदास – पद । कृतिका – शिवपूजन सहाय – माता का आँचल(क्रमशः) व्याकरण – अपठित गद्यांश, अपठित काव्यांश ।	दादाजी का चश्मा अनुच्छेद लेखन । स्वतंत्रता सेनानियों के नामों का संकलन । एवं उससे जुड़ी विशेष घटना का वर्णन । नव रसों पर आधारित
मई	05	व्याकरण – निबंध लेखन व पत्र लेखन ।	कवि सम्मेलन ।
जून	15	क्षितिज – गद्य खंड – रामवृक्ष बेनीपुरी – बालगोबिन भगत पद्य खंड – देव – सवैया । कवित्त कृतिका – शिवपूजन सहाय – माता का आँचल व्याकरण – वाक्य भेद ।	विधवा जीवन एक अभिशाप । मेरी दिनचर्या – अनुच्छेद लेखन । प्रकृति से सम्बन्धित कविताओं का संकलन ।
जुलाई	22	क्षितिज – गद्य खंड – यशपाल – लखनवी अंदाज । पद्य खंड – जयशंकर प्रसाद – आत्मकथ्य । सूर्यकांत त्रिपाठी 'निराला' – उत्साह तथा अट नहीं रही है । कृतिका – कमलेश्वर – जॉर्ज पंचम की नाक । व्याकरण – वाच्य परिवर्तन, पद परिचय ।	गर्मियों के मौसमी फल, फूल, सब्जियाँ फसलें एवं उनकी उपादेयता – समूह चर्चा । मोर, तोता, कोयल, पर प्रपत्र
अगस्त	22	क्षितिज – गद्य खंड – सर्वेश्वर दयाल सक्सेना – मानवीय करुणा की दिव्य चमक । पद्य खंड – नागार्जुन – (क) यह दंतुरित मुसकान (ख) फसल । कृतिका – पुनरावृत्ति । व्याकरण – रस, पद परिचय, पुनरावृत्ति) सार लेखन ।	फादर कामिल बुल्के की जीवन पर 'कार्यप्रपत्र' हंसना स्वास्थ्य के लिए उपयोगी – अनुभव लेखन ।
सितम्बर	19	क्षितिज – गद्य खंड – पुनरावृत्ति पद्य खंड – पुनरावृत्ति कृतिका – पुनरावृत्ति । व्याकरण – पुनरावृत्ति, लिखित अभ्यास ।	'अतिथि देवो भव' (वाद – विवाद)

		अर्ध वार्षिक परीक्षा ।	
अक्टूबर	18	क्षितिज — गद्य खंड— मन्नू भंडारी — एक कहानी यह भी । पद्य खंड— तुलसीदास — राम—लक्ष्मण—परशुराम संवाद । कृतिका — मधु कांकरिया — साना—साना हाथ जोड़ि । व्याकरण — रस ।	श्रंग रूप व्यक्तित्व विकास में बाधक वाद—विवाद । श्राम आज के युग में प्रासंगिक हैं । नरे लिखना—बुलवाना
नवम्बर	16	क्षितिज — गद्य खंड— महावीर प्रसाद द्विवेदी — स्त्री शिक्षा के विरोधी कुतर्कों का खंडन । यतींद्र मिश्र — नौबतखाने में इबादत । पद्य खंड— गिरिजा कुमार माथुर — छाया मत छूना । ऋतुराज—कन्यादान । कृतिका — शिव प्रसाद मिश्र 'रुद्र' — एही ठैयाँ झुलनी हेरानी हो रामा! व्याकरण — पद परिचय, रस (पुनरावृत्ति)	आधुनिक शिक्षा प्रणाली (वाद—विवाद)प्रसिद्ध वाद्य यंत्रों के प्रसिद्ध वादक कलाकारों पर प्रपत्र । सुखद— दुखद स्मृतियाँ ।
दिसम्बर	20	क्षितिज — गद्य खंड— 'भदंत आनंद कौसल्यायन' — संस्कृति । पद्य खंड— मंगलेश डबराल— संगतकार । कृतिका — अज्ञेय — मैं क्यों लिखता हूँ । व्याकरण — वाक्य भेद, सार, लेखन, व्याकरण—पुनरावृत्ति ।	तृष्णा, ईर्ष्या, लिप्सा, दर्प, क्रोध, आधुनिक सम्यता की देन । (परिचर्चाद्ध नारी एक रूप अनेक — समूह चर्चा ।
जनवरी	17	क्षितिज — गद्य खंड — पुनरावृत्ति । लिखित अभ्यास । पद्य खंड — पुनरावृत्ति । लिखित अभ्यास । कृतिका — पुनरावृत्ति । लिखित अभ्यास । व्याकरण — पुनरावृत्ति । लिखित अभ्यास ।	विवाह का निमंत्रण पत्र तैयार करना । चाटुकारिता का बढता चलन ।
फरवरी	21	क्षितिज — गद्य खंड तथा पद्य खंड पुनरावृत्ति । कृतिका — पुनरावृत्ति । व्याकरण — पुनरावृत्ति ।	जीवन में उपहारों का महत्व — अनुच्छेद लेखन ।

वार्षिक परीक्षा

विषय — संस्कृतम्

- पाठ्यपुस्तके** — (1) मणिका—2 (दशमश्रेण्यै) संशोधितसंस्करणम् (केन्द्रीय माध्यमिक शिक्षा बोर्ड)
(2) मणिका—2 (दशमश्रेण्यै) संस्कृत—अभ्यास—पुस्तकम् (केन्द्रीय माध्यमिक शिक्षा बोर्ड)
- सहायक—पुस्तकानि**— (1) सरस्वती —मणिका —संस्कृत— व्याकरणम्— भाग — 2—हरिओऽम् शास्त्री
(2) प्रायोगिक—संस्कृत—व्याकरण—कक्षा—10—डा.परमानन्द गुप्त ।
(3)संस्कृतसहचर—आचार्य राधामोहन उपाध्याय, श्री घनश्याम पाण्डेय ।

<u>मासा:</u>	<u>कार्यदिवसा:</u>	<u>पाठ्यक्रम:</u>	<u>अन्यगतिविधयः</u>
अप्रैल + मई	21 + 05	पाठ्यपु० – 1. वाङ्मयं तपः, 2.आज्ञा गुरुणां हि अविचारणीया । मूल्यशिक्षा– 1.मधुरवाणी वदनीया । 2. गुरवः वन्दनीयाः । जीवनकला – गुरुणाम् आज्ञा पालनीया । अभ्यासपुस्तकम् – 1.सन्धिः स्वरसन्धिः –दीर्घः, –गुणः, –वृद्धिः – यण् –अयादिः –पूर्वरूपम् व्यञ्जन–सन्धिः –परसवर्णम्, –छत्वसन्धिः, –तुकागमः, –मोऽनुस्वारः –वर्गीय प्रथमाक्षराणां तृतीयवर्णपरिवर्तनम् – प्रथमवर्णस्य पञ्चमवर्ण परिवर्तनम् विसर्गसन्धिः –विसर्गस्य उत्त्वम् –रत्वम् –विसर्गस्य लोपः, विसर्गस्थाने स्, श्, ष्,	कक्षायां पाठस्य वाचनं भविष्यति । छात्राः श्लोकान् स्मरिष्यन्ति । 'गुरोः आज्ञा अविचारणीया' इति विषयम् आधृत्य छात्राः लेखन–कार्यं करिष्यन्ति । नियतकार्यम्–1 Inclusive teaching- chapter-2 'आज्ञा गुरुणां हि अविचारणीया' इति पाठे शिक्षकः वैज्ञानिकरीत्या वानराणां मेदसः औषधियतत्त्वं छात्रान् बोधयिष्यति ।
जून	15	पाठ्यपु० – 3. किं किम् उपादेयम् । मूल्यशिक्षा– त्यागस्य फलं मधुरम् जीवनकला– सत्यासत्यविवेकः अभ्यासपुस्तकम् – 2.अव्ययानि 6.कः समयः 1.अव्ययानि – अपि, इव, उच्चैः, एव, नूनम्, पुरा, इतस्ततः, अत्र–तत्र, इदानीम्, यथा–तथा, विना,सहसा,अधुना, वृथा,शनैः,इति,कदा,कुतः,मा,यत्,यत्र–कुत्र,सम्प्रति,यदा–कदा, यावत्,श्वः,हयः,बहिः,कदापि,किमर्थम् । 2.अंकानां स्थाने शब्देषु समय –लेखनम् । (सामान्य–सपाद–सार्ध–पादोन)	छात्राः विविधैः – मूल्यैः– युक्तसूक्तीनां संग्रहणं कृत्वा श्यामपट्टे लेखिष्यन्ति । पत्रिकानिर्माणकार्यं भविष्यति । घटिकानिर्माणं भवति । 'अभ्यासवशगं मनः'इति पाठाधारित–अन्तर्विषयपरियोजना कार्यं पी.पी.टी. माध्यमेन इतिहासशिक्षकस्य सहायतया च ।

		3.अशुद्धिसंशोधनम् (वचन-लिंग-लकार-पुरुषदृष्ट्या)	
जुलाई	22	पाठ्यपु० – 4. नास्ति त्यागसमं सुखम् 5.अभ्यासवशगं मनः । मूल्यशिक्षा- 1.त्यागस्य महत्त्वम् 2. क्रोधः विनाशस्य कारणम् जीवनकला-1. निःस्वार्थसेवाभावः 2.अभ्यासेन वैराग्येण च मनसः वशीकरणम् अभ्यासपुस्तकम् –3. समासाः 9.अपठित-अवबोधनम् 1. समासाः – तत्पुरुषः (विभक्तिः, नञ्, उपपदः) कर्मधारयः द्विगुः 2. अपठितगद्यांशाभ्यासः	भाषाक्रीडाः, श्लोकोच्चारणम्, स्वपरिचयः, परिवेशपरिचयः Inclusive teaching- chapter- 4 'नास्ति त्यागसमं सुखम्' पाठे चिकित्सकः नेत्रदानस्य महत्त्वं छात्रान् बोधयिष्यति ।
अगस्त	22	अ.पु-4 प्रत्ययाः-कृदन्ताः-शतृ,शानच् तव्यत्, अनीयर् तद्धिताः-मतुप्,इन्,ठक्,त्व,तल् स्त्रीप्रत्ययौ-टाप्, डीप् 5.वाच्य परिवर्तनम्- केवलं लट् लकारे 8.पत्रलेखनम्, चित्रवर्णनम् 3.समासः- (i) द्वन्द्वः, (ii) बहुव्रीहिः(समानाधिकरणम्) (iii) अव्ययीभावः-(अनु, उप, सह, निर्, प्रति, यथा)	अनुच्छेदलेखनम्, । प्रत्येकं प्रत्ययानां पञ्च-पञ्च उदाहरणानि छात्राः लेखिष्यन्ति । नियतकार्यम्-2 अन्तर्परीक्षा-1
सितम्बर	19	पाठ्यपु० – 1-5 –पुनरावृत्तिः । मूल्यपरकप्रश्नानाम् अभ्यासः अभ्यासपुस्तकम् – पुनरावृत्तिः । मध्यावधिपरीक्षा द्वितीयसत्रस्य पाठ्यक्रमः	प्रश्नपत्राणाम् अभ्यासः
अक्टूबर	18	पाठ्यपु० – 6. साधुवृत्तिं समाचरेत् 7) रमणीया हि सृष्टिः एषा 8) तिरुक्कुरल- सूक्तिःसौरभम्	'प्रकृतेः महत्त्वम्, इति विषयस्योपरि कक्षायां चर्चा भविष्यति । चित्रं दृष्ट्वा छात्राः संस्कृतेन संख्यां

मूल्यशिक्षा—	1.खलजनैः सह न वस्तव्यः	लेखिष्यन्ति ।
	2. एकता रक्षणीया	
	3.कर्तव्यबोधता	
जीवनकला—	1.चौर्यवृत्तिः सर्वथा त्याज्या	
	2.स्वच्छपरिवेशे स्वस्थमनः वसति	
	3.सर्वश्रेष्ठधनं विद्याधनम्	

चित्रवर्णनम्, पत्रलेखनम् ।

नवम्बर
16

पाठ्यपु0 – 9) राष्ट्रं संरक्षयमेव हि ।
10) सुस्वागतं भो! अरूणाचलेऽस्मिन्
11) कालोऽहम्
मूल्यशिक्षा—1.भीषणास्त्राणां प्रयोगः सर्वथा मानवेषु वर्जितः
2.विद्यालयेषु शैक्षिकभ्रमणम् आवश्यकम्
3.कालः सर्वशक्तिमान्
जीवनकला— 1.संस्कृते विज्ञानस्य प्रयोगः
2.भारतीयप्रमुखदर्शनीयस्थलानां पर्वणां ज्ञानम्
3. हिन्दूपंचागस्य सामान्यज्ञानम्

अन्तर्परीक्षा—2

शब्दरूपाणां धातुरूपाणां च
स्मरणम् ।

Inclusive teaching- chapter-9

'राष्ट्रं संरक्षयमेव हि ' इति पाठे
प्राचीनास्त्राणाम् आधुनिकीकरणं
इतिहासशिक्षकः पाठयिष्यति ।
'सुस्वागतं भो! अरूणाचलेऽस्मिन्'
इति पाठाधारितसाकल्याध्यापनं
स्मार्ट बोर्ड माध्यमेन

दिसम्बर
20

पुनरावृत्तिः—सम्पूर्णपाठानाम् व्याकरणानां च
अभ्यासपुस्तकम् –10.अनुच्छेदलेखनम्
वचन—लिङ्ग—पुरुष—लकार दृष्ट्या अशुद्धिसंशोधनम्
चित्रवर्णनं पत्रलेखनं च ।

पाठे प्रयुक्तानां प्रत्ययानां चर्चा
भविष्यति ।

नियतकार्यम्—3

Inclusive teaching- chapter-11

'कालोऽहम्' इति पाठे सूर्यस्य
अवस्थानुसारं कालगणनां
विज्ञानशिक्षकः पाठयिष्यति ।

जनवरी 17

पाठ्यपु0— 1—11 – पुनरावृत्तिः
मूल्यपरकप्रश्नानाम् अभ्यासः
अभ्यासपुस्तकम् – सम्पूर्णव्याकरणं पाठ्यक्रमानुसारम् ।
शीर्षकाधारित—अनुच्छेदलेखनम्,अपठितगद्यांशाभ्यासः ।

Subject: Mathematics

Text Books: Mathematics for Class – X (NCERT)

Maths Lab Manual: Laboratory Manual in Mathematics Class – X (Rohit Publication)

Reference Books:

- 1) Secondary School Mathematics For Class – 10 by R.S.Aggarwal and V. Aggarwal (Bharti Bhawan)
- 2) C.B.S.E. Mathematics For Class – 10 by K.C.Sinha (Eduwiser Publishing Group)
- 3) Mathematics Class – 10 Part – I and II by Manjeet Singh (Full Marks Pvt. Ltd.)

Months/W.D.	Topic to be taught	Activity/Value
April (21)	<p>REAL NUMBERS Euclid's division lemma, Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples. Proofs of results - irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$. Decimal expansions of rational numbers in terms of terminating/non-terminating recurring decimals.</p> <p>Polynomials Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials. Statement and simple problems on division algorithm for polynomials with real coefficients.</p> <p>PAIR OF LINEAR EQUATIONS IN TWO VARIABLES Pair of linear equations in two variables and their graphical solution. Geometric representation of different possibilities of solutions/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination and by cross multiplication method.</p>	1, 18, 15 Good behaviour in human interaction
MAY (05)	<p>PAIR OF LINEAR EQUATIONS IN TWO VARIABLES (Cont.) Simple situational problems. Simple problems on equations reducible to linear equations.</p>	13 Good behaviour in human interaction.
JUNE (15)	<p>QUADRATIC EQUATIONS Standard form of a quadratic equation $ax^2+bx+c=0$, ($a \neq 0$). Solution of the quadratic equations (only real roots) by factorisation, by method of completing the square and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.</p> <p>ARITHMETIC PROGRESSIONS Motivation for studying Arithmetic Progression, Derivation of standard results of finding n^{th} term and sum of the first n terms of A.P.</p>	2, 3, 4, 14 Sharing, Compassion, Empathy
JULY (22)	<p>ARITHMETIC PROGRESSIONS (Contd.) Application of A.P. in solving daily life problems.</p> <p>TRIANGLES Definitions, examples, counter examples of similar triangles.</p> <ol style="list-style-type: none"> (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, then the other two sides are divided in the same ratio. (Motivate) If a line divides two sides of a triangle in the same ratio, then the line is parallel to the third side. (Motivate) If in two triangles, the corresponding angles are equal, then their corresponding sides are proportional and the triangles are similar. (Motivate) If the corresponding sides of two triangles are proportional, then their corresponding angles are equal and the two triangles are similar. (Motivate) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, then the two triangles are similar. 	5,6,7,8(b) Discipline, responsibility

AUGUST (22)	<p>6. (Motivate) If a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse, then the triangles on each side of the perpendicular are similar to the whole triangle and to each other.</p> <p>7. (Prove) The ratio of the areas of two similar triangles is equal to the ratio of the squares on their corresponding sides.</p> <p>8. (Prove) In a right triangle, the square on the hypotenuse is equal to the sum of the squares on the other two sides.</p> <p>9. (Prove) In a triangle, if the square on one side is equal to sum of the squares on the other two sides, then the angles opposite to the first side is a right triangle.</p> <p>CIRCLES Tangents to a circle motivated by chords drawn from points coming closer and closer to the point. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact.</p> <p>CIRCLES (Contd.) (Prove) The lengths of tangents drawn from an external point to circle are equal.</p> <p>CONSTRUCTIONS Division of a line segment in a given ratio (internally). Tangent to a circle from a point outside it. Construction of a triangle similar to a given triangle.</p> <p>STATISTICS AND PROBABILITY Mean, median and mode of grouped data (bimodal situation to be avoided). Cumulative frequency graph. Classical definition of probability. Simple problems on single events (not using set notation).</p>	9, 16, 17, 19 Respect for law and order.
SEPTEMBER (19)	<p>Revision for Half Yearly Examination. Half Yearly Examination. Question paper discussion. COORDINATE GEOMETRY LINES (In two-dimensions) Review the concepts of coordinate geometry done earlier including graphs of linear equations. Awareness of geometrical representation of quadratic polynomials. Distance between two points.</p>	Conflict resolution.
OCTOBER (18)	<p>COORDINATE GEOMETRY (Contd.) Section formula (internal). Area of a triangle. INTRODUCTION TO TRIGONOMETRY Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios, whichever are defined at 0° and 90°. Values (with proofs) of the trigonometric ratios of 30°, 45° and 60°. Relationships between the ratios. TRIGONOMETRIC IDENTITIES Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only simple identities to be given. Trigonometric ratios of complementary angles. HEIGHTS AND DISTANCES Simple and believable problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30°, 45°, 60°</p>	20, 12, 10 Team Work

NOVEMBER (16)	<p>MENSURATION AREAS RELATED TO CIRCLES Motivate the area of a circle; area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60°, 90° and 120° only. Plane figures involving triangles, simple quadrilaterals and circle should be taken.)</p> <p>SURFACE AREAS AND VOLUMES (i) Problems on finding surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones. Frustum of a cone. (ii) Problems involving converting one type of metallic solid into another and other mixed problems. (Problems with combination of not more than two different solids be taken.)</p> <p>Revision For Pre – Board Examination. Pre – Board Examination 2018 – 19 Discussion of Pre – Board Question Paper. CBSE Sample Papers.</p>	11 Sharing and caring.
December (20)	Revision For Pre – Board Examination. Pre – Board Examination 2018 – 19 Discussion of Pre – Board Question Paper. CBSE Sample Papers.	
January (17)	Comprehensive Revision For Board Exam 2018-2019	

Subject : Science & Technology (Physics)

Prescribed Text books: 1. Science and Technology for class X – NCERT

Reference books: Physics X – Dinesh Publication
Super Simplified Science

Month	W. D.	Content	Activities / Project
April + May	21 + 05	Light – Reflection and Refraction: Reflection of light, plane mirror and spherical mirror, image formation by plane mirror, and spherical mirror, Centre of curvature, principal axis, principal focus, focal length. Mirror formula. Sign convention for reflection by spherical mirror, Mirror formula and Magnification.	To find the focal length of concave mirror and convex lens by obtaining the image of a distant object.
June	15	Refraction of light: Laws of Refraction of light, Refractive index, Refraction of spherical lens, Image formation by lenses, ray diagram, sign convention for spherical lenses. Lens formula & its magnification. Power of a lens. Refraction through glass slab.	To trace the path of rays of light through a glass slab.
July	22	Image formation by lenses (Contd.), Sign convention for lenses, lens formula and magnification, Power of a lens. The Human eye and the colourful world – The Human eye, Power of accommodation, Defect of vision and their corrections, working of human eye, persistence of vision viewing different colours: Power of accommodation of human eye. Refraction of light through a prism, Dispersion of white light by a glass prism, composition of white light. Visible spectrum, causes of Dispersion, Recombination of spectrum, colours,	To show refraction through prism

		rainbow, atmospheric refraction. Scattering of light, Tyndall effect, examples of the scattering of light.	
August	22	Electricity: Electric current and circuit, Electric potential and potential difference, circuit diagram, Ohm's Law. Resistance, factors on which it depends, resistance of a system of resistances. Resistors in Series and parallel combination of resistors and its application. Heating effect of electric current, and practical applications of Heating effect of electric current, electric power	To study the dependence of potential difference (V) across a resistor on their current I passing through it & determine its resistance. Also plot the graph between V – I.
September	19	Revision Half Yearly Examination + Discussion	
		Magnetic Effects of Electric Current: Magnetic field, field lines,	
October	18	Magnetic Effects of Electric Current: Magnetic field due to a current carrying conductor, coil, solenoid. Force exerted by a current carrying conductor placed in a Uniform magnetic field, Right hand thumb rule, Fleming's left and right hand rule, electromagnetic induction, induced Potential difference, Induced current,	To determine the equivalent resistance of two resistor when connected in Series.
November	16	Domestic electric circuits, Direct current, Alternating current, Frequency of AC, Advantage of AC over DC. Sources of Energy: Different forms of energy, Conventional and Non-conventional sources of energy, fossil fuels, Solar energy, Biogas wind, water and tidal energy, Nuclear energy, Renewable and non renewable sources of energy. Improvement in the technology for using conventional sources of energy, bio-mass, wind energy, Alternate or non-conventional sources of energy, energy from sea, wind, wave, ocean, thermal, geothermal, Nuclear energy, Environmental consequences, How long will energy sources last in.	To determine the equivalent resistance of two resistor when connected in Parallel.
December	20	Revision for the complete syllabus and pre board	

Subject: Science & Technology (Chemistry)

Book : NCERT (Science & Technology)

Lab manual: Super Simplified Science (S. Dinesh & Co.)

Reference Book : Foundation Science (Bharti Bhawan)

Month	W. Days	Contents	Suggested Activities / Projects
April	21	Chemical Reactions – Introduction about chemical equation, Balancing of chemical equation. Implication of balanced chemical	1. To Study different types of reactions: combination, decomposition,

+	+	equation. Types of chemical reactions, Combination, Decomposition, single displacement, double displacement, precipitation. Neutralisation reactions. Oxidation and reduction in terms of gain and loss of oxygen and hydrogen. Balancing the chemical equation, Corrosion and Rancidity.	displacement and precipitation
May	05		2. To Study the action of Zn, Fe, Cu & Al on ZnSO ₄ , CuSO ₄ , FeSO ₄ & Al ₂ (SO ₄) ₃ and arrange these metals in decreasing order of reactivity.
		<u>Acid, Bases and Salts –</u>	
June	15	Introduction of acid, bases and salts. Definition in terms of furnishing H ⁺ & OH ⁻ . General physical and chemical properties, examples and uses. Concept of pH scale.	3. To find out pH of the various samples To Characterise an acid on the basis of the following tests: (i) Litmus (ii) Zn Piece (iii) Solid NaHCO ₃
July	22	To be continued : Determination of strength of acid and base. Importance of pH in everyday life. Some important salts: Its preparation, properties and uses. Sodium hydroxide, bleaching powder, Application of salts like Na ₂ CO ₃ , NaHCO ₃ , Plaster of Paris, Gypsum, Quick lime and Slaked lime	4. To Characterise the base on the basis of its test with Zn, litmus & NaHCO ₃
		<u>Metals and Non-metals</u>	
		Physical and Chemical properties of metals & non metals, Reactivity series, Formation and properties of ionic compound.	
August	22	<u>Metals and Non-metals</u> Brief discussion of basic metallurgical processes, Extraction of metals. Corrosion, prevention of corrosion.	5. To study the action of various metals on the several metal salts and arrange these metals in the order of reactivity.
		<u>Carbon Compounds –</u>	
		Elementary idea about bonding of carbon Compounds. Versatile nature of carbon. Homologous series. Difference between Saturated and unsaturated carbon compounds. Nomenclature including halogens, alcohols, acids, aldehydes, ketones, alkane, alkenes & Alkynes.	
September	19	Revision for Half Yearly Examination , Sample paper solution . Assignments practice.	
October	18	<u>Carbon Compounds – (contd)</u> Chemical properties of carbon compounds (Ethanol and Ethanoic acid) like combustion, oxidation, addition and substitution reactions. Some important chemical compounds soaps and detergents and its cleansing action.	To study the saponification reaction for the preparation of soap. To study comparative cleaning capacity of soap in soft and hard water.
November	16	<u>Periodic classification of elements :</u> Introduction, need of classification and various	To study the properties of Ethanoic acid.

Developmental stages of classification of the elements. Mendeleev's periodic table. Modern periodic table, features and limitation, Gradation in Properties like valency, atomic no., metallic and non-metallic properties.

Management of natural resources :

Need for the management, conservation and judicious use of natural resources. Forest and wild life conservation, Example of people participation for the conservation, water harvesting technique.

December 20 Doubt clearance classes, practice papers
Revision and mock test

Subject : Science & Technology (Biology)

Prescribed Book – 1. Science for Class-X – NCERT.
2.. Laboratory Manual – Science –Class X, (as per NCERT)

Reference Book – 1. Super Simplified Science(Biology) – Class X (Dinesh Publication)
2. Visualised science (Biology) –Class X , (S.Chand publication)
3. Science Biology – Class X (VK Global publishers)

Month	W.D.	Topics / Sub –Topics	Project/Activities
April	21	Unit – World of Living Chapter 6 Life Processes – Introduction. Nutrition - Modes of nutrition, Nutrition in plants, Photosynthesis, structure of a leaf (cellular), Opening & closing of stomata, Factors affecting photosynthesis. Nutrition in lower animals(Amoeba, Paramecium etc), Nutrition in human beings- Human digestive system, absorption and assimilation. Dental caries.	1. To prepare a temporary mount of leaf peel to show stomata.
May	05	Chapter 6 Respiration – Introduction	
June	15	Chapter 6 Respiration - Types of respiration(aerobic & anaerobic) Concept of ATP breakdown; Exchange of gases in plants, lower animals, aquatic & terrestrial organism; Human respiratory system- structure & mechanism. Transportation Transportation in human beings – Blood, Our pump - the heart (Introduction)	2. To show experimentally that Carbon dioxide is given out during respiration.
July	22	Chapter 6 Transportation (continued...) Human heart(structure and function); Exchange and transport of gases by blood, structure and function of blood vessels, Maintenance by platelets(blood clotting) , lymph Transportation in plants – Transport of water, Transport of food and other substances , Role of xylem and phloem. Excretion :- Excretion in human beings - Excretory system in human beings, Structure of a nephron,	
August	22	Chapter 7 Excretion (continued...) Osmoregulation, Artificial kidney(Hemodialysis), excretion in plants. Control and Coordination :	

		<p>Animals - Nervous system Parts of nervous system(structure of neuron & neuromuscular junction) ; reflex action(path, functions & examples) ; human brain(structure & functions of main components) ; Protection of brain. Role of nervous tissue in causing action. Coordination in Plants - Immediate response to stimulus, movement due to growth, plant hormones Hormones in animals – Endocrine glands in human beings(position and function in both male & female)</p>	
September	19	<p>Revision. Question Paper discussion Half yearly examination Chapter – 8 Reproduction : Copying of DNA ; Importance of Variation ; Asexual Reproduction(fission, fragmentation, regeneration, budding, vegetative propagation, spore formation) Sexual reproduction- Its need , Sexual Reproduction in flowering plants.</p>	
October	18	<p>Chapter – 8 Reproduction : (Contd..) Reproduction in human beings: Male and female reproductive system, Menstruation (when the egg is not fertilized) , Reproductive health-Need for & methods of family planning, safe sex, HIV/AIDS child bearing and women’s health. Symptoms of sexually transmitted diseases, contraceptive methods . Chapter – 9 Heredity and Evolution Accumulation of variation during reproduction ; Heredity – Inherited traits,Mendel's contribution and rules for inheritance of traits, Expression of the traits , Sex determination in human beings , Evolution – basic concepts,</p>	3. To study a) binary fission in Amoeba b) budding in yeast with the help of prepared slides.
November	16	<p>Chapter – 9 Heredity and Evolution(contd..) Variation in a population – inherited and otherwise, acquired and inherited traits, Origin of life on earth(Darwin , Mendel, Haldane, Urey & Miller contribution), Speciation , Evolution and classification -tracing evolutionary relationship (homologous & analogous organ), Fossil, Fossil formation layer by layer, evolution by stages , molecular phylogeny; Evolution should not be equated with ‘progress’ – Human evolution. Chapter – 15 Our Environment – Waste production & their solution , Biodegradable & non- biodegradable substances , Ecosystem and its components ,Food chain and Webs(flow of energy), biological magnification. Human activities affecting the environment- Ozone layer depletion, managing the garbage we produce.</p>	4. To identify the different parts of an embryo of a dicot seed (pea, gram or red kidney bean).
December	20	Revision	
January	17	Revision	
February	21	Revision	

Subject : Social Science (History & Political Science)

Text/Reference Books : 1) History: India and The Contemporary World II, published by NCERT
2) Political Science: Democratic Politics II, published by NCERT

Month	W.D.	Topics / Sub –Topics	Project/Activities
April	20	<p>Sub unit 1.1 The Rise of nationalism in Europe (1789 – 1914 AD) 1. The French revolution and the idea of Nation state</p>	1. Historical album on “The great nationalists of Europe”

		<p>and Nationalism, napoleon Bonapart and the spread of Nationalism</p> <p>2. The Era of Libral Nationalism 1789-1815AD</p> <p>3. The age of New conservatism 1815 – 1830</p> <p>4. The Revolutionary Nationalism causes, its features</p> <p>Sub Unit : 3.1 Chapter 1</p> <p>Power Sharing Mechanism in Democracy</p> <ul style="list-style-type: none"> • Meaning and need of Power Sharing in democracy • Forms/Types of Power Sharing. • Power sharing as spirit and soul of Modern Democracy • Power sharing in Belgium and Sri Lanka. • The comparative study between the two models of Power Sharing <p>Meaning and Features of Federalism and Features of Indian Federalisms.</p>	<p>2. Time-line chart on events of European National Movement</p> <p>Term I</p> <p>Suggested project</p> <p>Case Study</p> <p>Theme chapter 3.5/05 of NCERT Book II ie A Democratic Movement in Nepal</p>
May + June	05+1 5	<p>Hist: Sub Unit 1.1/01, the remaining part</p> <ol style="list-style-type: none"> 1. The age of Revolutions (1830 – 1848)AD 2. The making of Italy and Germany 1870 – 1871 3. Nationalism and European imperialism; Balkan wars 4. Visualising Nations, Allegory <p>Sub Unit: 3.1, Chapter 2, the remaining part 3.1</p> <ul style="list-style-type: none"> • Power sharing Mechanism in Indian Federation; Division and decentralization of Power • Indian Federation in Practice <ol style="list-style-type: none"> A) The linguistic creation of state B) Centre-State relation. Features, suggestions to improve relation • Indo-U.S. Federation; A comparative study. 	<p>B. Democratic movement in Egypt</p> <p>C. Tamil Problems in Sri Lanka</p>
July	22	<p>Hist 1.1/03 Nationalism in India</p> <p>First World War and Freedom Movement in India</p> <p>Khilafat and Non Co-operation Movement</p> <ul style="list-style-type: none"> - Gandhian concept of Satyagrah - Philosophy causes and programmes of Non Co-operation Movement - Spread limitations and withdraw of Non Co-operation Movement <p>P. Sc Sub Unit 3.2/03</p> <p>The working of Democracy and Diversities</p> <ol style="list-style-type: none"> 1. Origin of social division and its impacts on democratic politics 2. Types of social differences and its consequences on politics 3. Determinates of the politics of social division – good or bad for democratic politics 	<p>For Term I compulsory</p> <p>Activity suggested</p> <p>Map works</p> <ol style="list-style-type: none"> 1. Location 2. Identification <p>Theme: Nationalism in India (1920 – 1930)</p>
August	22	<p>Hist 1.1/03 Nationalism in India; the remaining part</p> <p>Towards; Civil Disobedience Movement (1922 – 1934 AD)</p> <ol style="list-style-type: none"> 1. The major events and developments leading to the movements 2. Causes and outbreak 3. The spread and Limitation of the movement 4. Withdrawal of the movement and consequences 5. A comparative study to NCM (1921 – 1922) Vs CDM (1930 – 1934) <p>Sub: Unit 3.2 Chapter – 4 : the remaining part :</p> <p>Gender, Religion and Politics;</p>	<p>The popular struggle and movements</p> <p>Democratic movement in Nepal and Egypt</p>

		<ul style="list-style-type: none"> • Gender Politics and Empowerment of women in India. • Caste politics, Communal politics causes, impacts and solution. 	
September	19	Revision of the Portion for HY H.W./C.W, Model Q. Paper For HY Examination	Massive use of Smart-Board material followed by QS.
October	18	Sub Unit 1.2 Chapter – 5 : Industrialization : 1850's – 1950's A.D. A. Industrialization in Britain <ul style="list-style-type: none"> • Proto Industrial Britain (1750-1850); Meaning and features • Factors and Forces that helped in bringing Industrial Revolution and Industrialization. • Features of Industrialization. • Consequences of Industrialization wither Special reference to workers and Children. • THE AGE OF INDUSTRIALIZATION <ul style="list-style-type: none"> - Industrialization in India under the British rule POLITICAL PARTIES <ul style="list-style-type: none"> - Meaning, function type of party system and their merit – demerit, challenges to political parties in India, Reforms in Political Party. 	
November	16	Print culture and Modern World <ul style="list-style-type: none"> • Growth of Print culture in China, Japan and Korea • Growth of Print in Europe, print Revolution and its impact • Growth of print culture in India under the British Sub Unit 1.1. : the remaining part :- <ul style="list-style-type: none"> • The making of Italy and Germany as Nation : • Nationalism and European Imperialism; Balkan issue and world war – I • Visualizing Nations. Sub Unit : 3.4 Chapter-7 Out comes of Democracy. <ul style="list-style-type: none"> • Reasonable and expected outcomes of democracy. • Does democracy in India meet these expectations? • What sustains democracy in India? • Should democracy be judged by its out comes. Sub: Unit 3.4. Chapter – 8 The Challenges to Democracy <ul style="list-style-type: none"> • The Foundational, the challenges of expansion and the challenge of deepening democracy. • The Challenges to democracy in India. • How can democracy be reformed and deepened. • Is the idea of democracy Shrinkage • Role of ordinary people in deepening democracy. Sub Unit 1.3, Chapter - 7 Print Culture and Nationalism <ul style="list-style-type: none"> • The origin of print technology; China and Japan • The advent of print technology in Europe and print revolution. • The Print Revolution and its impact – Children, women and nationalism. Reading mania, print and French Revolution 	Audio-Visual Aid: Smart-Board material on European Nationalism. Debate on Partyless democracy is impractical and impossible
December	17	Revision exam. i) Model Question Paper based on Annual content. ii) Previous year's Board Question Papers	

iii) School Assignment

iv) Mock Test

- Pre - Board

Subject : Social Science (Geography)

Text Book: 1. Social Science Contemporary India – Part-II; Published by NCERT

2. Together towards a safer India, part – III, A text book on Disaster Management for class X, published by CBSE.

Month	W.D	Topics	Inclusive Education	Project/Activities
April +	21 +	<u>Resources</u> - Resources and Development	Economics: Sustainable Development	* Activity:1) Preparation of a Flow Chart showing Types of Resources.
May	05	- Types of Resources, Resource Development - Resource Planning, Need for Resource Planning, Conservation of Resources <u>Natural Resources</u> - Land Resources, Land utilization, land-use Pattern in India.		2) Preparation of a Pie Chart representing Land-use Pattern in India.
June	15	<u>Natural Resources (contd.)</u> : - Land Degradation and Conservation Measures. - Soil as a Resource, Soil Formation, Soil Types, Soil Erosion and Conservation of Soil.	Chemistry: Components of Soil.	Activity; 1) Preparation of a Pie Chart showing the %age of Waste Lands in India 2) Preparation of a Tabular Chart showing Major Soil Types, Formation, Features and their Distribution
July	22	- <u>Water Resources</u> : - Water: Some facts and Figures, Water as an important Natural Resources, Sources of water - Distribution and Utilization of Water, Water Scarcity, Need for Conservation and Management,	Chemistry: Water Treatment.	Activity: Write a Paragraph on the topic – ‘ Water is Saviour of Life’ Activity :1) Map works to show the Major Dams on the Political Outline Map of India 2) Group Discussion on ‘ Pros’ and ‘Cons’ of Multipurpose Projects 3) Power Point Presentation on the Traditional adaptation of Rainwater Harvesting in India
August	22	- <u>Water Resources : (Contd.)</u> Multipurpose Projects; Objectives and Consequences. - Rain Water Harvesting and its Objectives. <u>Agriculture</u> : - Importance of Agriculture, Types of Farming. - Cropping Pattern, Major Crops - Technological and Institutional Reforms, Contribution of Agriculture to National Economy, Employment and Output.	Economics: Contribution of Agriculture to National Economy, Employment and Output	Project: 1) Preparation of Model of Rainwater Harvesting 2) Development of Indian Agriculture in the Post Independence Period

September	10	Chapter wise Revision for Half-Yearly - Half-Yearly Examination		
September + October	03+ 18	<u>Mineral and Energy Resources</u> : - Significance of Mineral Resources, Mode of Occurrence of Minerals, Types of minerals and Conservation of Minerals. Energy Resources, Conventional Sources of Energy. - Non-Conventional Sources of Energy, Conservation of Energy Resources. <u>Manufacturing Industries</u> : - Importance of Manufacturing, Contribution of Industry to National Economy, Industrial Location		Activity: Any one of the following Disaster Management topics 1. Role of government / Non Government functioning in your locality in Disaster Management. 2. Generating awareness in Disaster Management 3. Preparation of models of Disaster Resilient structures. 4. Pocket guide on first aid
November	16	<u>Manufacturing Industries : (contd.)</u> - Classification of Industries - Agro-based Industries - Mineral based Industries. - Industrial Pollution and Environmental Degradation - Control of Environmental Degradation, <u>Lifelines of National Economy</u> : - Lifelines of a Nation and a shrinking world. - Roadways. - Railways, Pipeline Transportation - Water and Air Transports - Means of communication and their significance - International Trade, Tourism as a Trade	Economics: Contribution of industry to National economy Chemistry: Industrial pollution.	5. Institutional case study on disaster response. 6. Communication facilities for Disaster Management. 7. Preparation of Disaster Contingency plan.
December	17	Revision for Pre-Board Pre – Board Examination	Economics – International Trade - Tourism as a trade	

Geography Magazine

Subject : Social Science (Economics)

Text Book : A Text Book of Social Science – NCERT
Social Science – III, V.K. Publication

Month	W. D.	Topics	Project/Activities, Learning Objective, Anecdotes & Value education-
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April + May	20 + 06	<u>THE STORY OF DEVELOPMENT :</u> a. The Traditional notion of development; NI, PCI, NI- Critical Appraisal of existing development indicators (PCI, IMR, SR and other income and health indicators) The need for health and educational development; Human development b. Indicators (in simple and brief as a holistic measure of development) Use case study of three states (Kerala, Punjab and Bihar) or take a few countries (India, China, Sri Lanka and one developed country)	Differentiation between growth and development Anecdotes-Video clips showing development in different years Sensitivity to environment : Development without hampering environment
June + July	15 + 21	<u>The Role of Service Sector in Indian Economy:</u> a. What is service sector (Through Examples) b. Importance of service sector in generating employment and income to the nation, (with the help of a few case studies)	Understanding about the occupational structure Team work: Role of different sectors in the development of a nation Economic value: The share of different sectors in country's GDP - On a chart paper categorize different occupations in different sectors.
August	23	Growth of service sector in India; India as a major service provider to the world. <u>Money and Financial System :</u> b. Role of money in an economy c. Historical origin d. Formal and informal financial institution for saving and credit.	
September	10+ 6+3	Revision HALF YEARLY EXAMINATION Discussion of Question Paper	
October + November	15 + 23	e. General introduction; select one formal institution such as a nationalized Commercial bank and a few informal institutions. Local money lenders, landlords, chit funds and private finance. <u>Globalisation :</u> a. What is Globalisation (Through some simple examples) b. How India is being globalised and why? c. Development strategy prior to 1991	Understand the different terms and sources of credit - Bank official would be called to brief about different services rendered by the banks. Economic value: Credit provided by formal and informal institutions A project on Historical origin of banks. Identify the logos of many companies whose products are of everyday use Honesty and Integrity: Implementation of fair globalization by developed countries
December	16	<u>Globalisation :</u> d. State control of Industries; Textile goods as an example for elaboration. Economic Reform 1991 e. Strategies adopted in Reform measures (easing of	- Inclusive Education : Business Studies – Would brief the students about

- capital flows; migration; investment flows)
- f. Different perspective on globalization and its impact on different sectors; Political impact of Globalisation.

various business techniques

Consumer Awareness :

- a. How is consumer exploited (one or two simple case studies) factors causing exploitation of consumers
- b. Rise of consumer awareness

Respect for law and order:Fair trade practices by shopkeepers for selling goods

Helps to understand the rights and duties of a consumer

Suggest measures to reduce consumer exploitation

Consumer Awareness :

- c. How a consumer should be in a market
- d. Role of government in consumer protection.

- Project on consumer awareness, right and duties of a consumer.

January	16	Revision
February	22	Revision & Mock Test
March	24	ANNUAL EXAMINATION

Subject : CompSc(Wed)(C Programming) Text Books – No Books

Month	W.D	Topics to be Covered
April+May	21 + 05	<p>Getting started with C</p> <ul style="list-style-type: none"> • What is C • C character set • Tokens <ul style="list-style-type: none"> - Keywords - Identifiers - Literals - Separators Operators <p>Activity: Prepare a ppt on evolution of C</p>
June	15	<ul style="list-style-type: none"> • Operators <ul style="list-style-type: none"> - Arithmetic operator - Relational Operators - Logical Operators • Data types in C • Variable(Declaration and initialization) • Basic structure of C program <p>Activity: Prepare a chart on datatypes and operators in C</p>
	22	<ul style="list-style-type: none"> • printf() and scanf() • compilation and execution • pre-processor directives • What is main() • Comments in C • Simple programs in C <p>Activity: Write a program to find the sum,difference,product of two numbers.</p>
August	22	<ul style="list-style-type: none"> • Programming Constructs <ul style="list-style-type: none"> - Sequential statements - Selection statements - Iterative statements

		<ul style="list-style-type: none"> • Selection statements: <ul style="list-style-type: none"> - If, if else, if else if - Nested if - switch case <p>Activity: Write a menu driven program to calculate area of circle, triangle, square.</p>
September	19	Revision & Practical Examinations Assessment
October	18	<ul style="list-style-type: none"> • Iterative /Looping statements <ul style="list-style-type: none"> Parts of a loop Types of loop do-while loop <p>Activity: WAP to find factorial of first n natural numbers.</p>
November	16	<ul style="list-style-type: none"> while loop for loop <p>Functions in C</p> <ul style="list-style-type: none"> • What is function and what is its use? • Function prototype • Function definition and function call <p>Activity: WAP to check whether the given number is a perfect no. or not.</p>
December	20	<p>Functions in C</p> <ul style="list-style-type: none"> • Call by value • Formal parameters and Actual parameters <p>Scope Rules</p> <ul style="list-style-type: none"> • Local Variables • Global Variables • Initialization of local and global variables. <p>Activity: Write a function to swap two numbers without using third variable.</p>
January	17	<p>Arrays-</p> <ul style="list-style-type: none"> • Introduction to Array • Working with array • Array initialization <p>Activity: WAP to swap alternate elements of a 1-D array</p>
February	21	Revision & Practical Examinations Assessment

Subject : Physical Education

Month	No. Of w/days	Particulars
April/May	26	<p>Unit - I</p> <ol style="list-style-type: none"> 1. Tests for Measuring different Fitness Components 2. Strength: Pull Ups, Push Ups, Rope Climbing 3. Speed: 30 Mtrs, 40 Mtrs 4. Flexibility: Sit and Reach, Tests to measure Spine Flexibility 5. Endurance: 9 Min, 12 Min Run and Walk 6. Coordinative ability: Shuttle Run (10 × 4)

June/July	37	Unit – II <ol style="list-style-type: none"> 1. Play 2. Meaning and Concept 3. Characteristics of Play 4. Benefits of Play 5. Regional play Activities Unit - III <ol style="list-style-type: none"> 1. Physical Activity and Gender 2. Anatomical differences between genders 3. Physical activity and women 4. Weight training for women
August/September	41	Unit - IV <ol style="list-style-type: none"> 1. Stress and Coping 2. Meaning and Causes 3. Relaxation Training 4. Coping Strategies Unit - V <ol style="list-style-type: none"> 1. Physical Activity and Quality of Life 2. Meaning and Concept 3. Benefits of Physical activities to promote quality of life 4. Development of ethical values through physical activities
October	18	Unit - VI <ol style="list-style-type: none"> 1. Physiological basis of physical Education 2. Meaning and concept of physiology 3. Measurement of blood pressure, pulse rate and respiratory rate. 4. Warming up and Cool down
November	16	Unit - VII <ol style="list-style-type: none"> 1. Psychological basis of Physical education 2. Meaning and importance 3. Habit: formation of good habits, breaking bad habits 4. Emotions: meaning, types, training for controlling emotions
December	20	Unit - VIII <ol style="list-style-type: none"> 1. Career avenues in the field of Physical Education 2. Career avenues in educational institutions, media, fitness, industries (sports), 3. Educational qualifications in physical education 4. Leading institutions of physical education
Jan/feb.	38	Unit – IX <ol style="list-style-type: none"> 1. Safety and Injuries 2. Self safety 3. Safety of equipment 4. Prevention of sports injuries 5. yoga
April to Jan		Practical <ul style="list-style-type: none"> • Athletics: 50 mtrs dash, throws • Fitness test: Fitness test of class X should be conducted on the basis of the AAPHER test and records should be maintained. • Any two games: Students are required to play two games out of the listed sports: <ul style="list-style-type: none"> • Badminton • Table Tennis • Lawn Tennis • Judo • Aerobics • Karate

		<ul style="list-style-type: none"> • Taekwondo • Students are required to prepare a project on the regional play activities from their home town. <p><u>Assessment & Observation</u></p> <p>During the school sessions, many observations would arise because of individual behavior, related conditions, change in social/cultural factors hence the teacher need to take corrective actions and record the behavior. Some key assessment points and their observations are mentioned here.</p> <ul style="list-style-type: none"> • Initiate to participate, if yes, observe for: Leadership quality/Active/Energetic/Talented • Team game, if yes, observe for: Sportsman spirit/Good group behavior/Group sharing/Interaction & Coordination • Organized game participation, if yes, observe for: Discipline/Emotionally balanced/Rushness • Rules & regulations follower, if yes, observe for: Listening & speaking skills/knowledge about the rules * Equipment management, if yes, observes for: Self control/Self disciplined/Organized-maintained.
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Subject: Swimming

MONTH	No Of W.D.	UNIT /CHAPTER	DESCRIPTION
MARCH	23	SWIMMING CAMP	i) Preparation for swimming competetions.
APRIL to JUNE	21+5+15	CHAPTER -1	<ul style="list-style-type: none"> i) General & specific warming up on ground and in the swimming pool ii) Checking of waterman ship. iii) Selection of swimming team of performance basis iv) Rules & regulations of swimming. v) Demonstration of four basic skills of swimming. vi) Preparation of swimming demonstration. vii) Videos and power point presentation.
JULY to SEPT	22+22+19	CHAPTER-2	<ul style="list-style-type: none"> i) Stroke correction. ii) Swimming START, TURNING & GLIDING practice. iii) Types and kind of START practice. iv) Time trials. v) Competition in groups. vi) Videos and power point presentation.
OCT & NOV	18+16	CHAPTER -3	<ul style="list-style-type: none"> i) Medley relay & relay race practice. ii) Sequence of stroke in relay & individual medley iii) TURNING correction. iv) Time trials. v) Competition in groups. vi) Videos and power point presentation.

Subject : Life Skills

Month	W. D.	TOPIC	VALUES/ACTIVITIES
April	21	Self-awareness * aware of one's qualities * failures as stepping stones	developing self respect Facing challenges class play on the values
May+June	5+15	Dream Big- make it reality *utilizing oppurtunities * Exemplary leaders as examples	Tapping inner power crisis as opportunity poems/presentations
July	22	Growing Healthy&Graceful * good positive tension *emerging as a winner	Healthy food habits Yoga & exercises play on food habits & exercises
August	22	Managing yourself * emotions, stress, anger * studies, family relations * social behavior- age wise	Balancing emotions, studies critical & creative thinking RADIO SHOW based on the values learnt
September	19	HALF YEARLY EXAMS	
October	18	Peer pressure & conflict resolution * positive & negative pressures * factors of peer pressure * conflict resolution skills	Positive attitude Real life examples
November	16	.Time Management Value of time Identifying distractions utilization eliminating distractions Prioritizing goals achieving goals SMART Board ppt.	
December	20	Self-leadership Assessing one's talent Radiant living values of love, care, happiness share happiness be truthful organize studies/efforts	Class Play
January	17	Effective Comm. To conquer negative thoughts Power of thoughts Be a good listener	Role Play in class
February	21	Annual Exams	

ART-EDUCATION

Subject : ART & CRAFT

Month	W.D.	Particulars	Learning Outcome
April	21	Copy painting from great artist(contd.)	
May+ June	05	Copy painting from great artist.	Project on contemporary art
July	21	Spatula work (contd.) Composition in water colour	

August	22	Spatula work Perspective drawing (contd.)	
September	19	Perspective drawing; Kalighat Path Painting (contd.)	
Half Yearly Examination			
October	18	- Kalighat path Painting - Tie & Dye	
November	16	- Cubism - Abstract Composition	Project on Art of Maurya and Gupta Period Painting of Pablo Picasso
December	20	- Photo Montage	
January	17	- Installation Art	
February	21	- Installation Art (Contd.)	

Subject : DANCE

Month	W.D.	Particulars	Learning outcome
April	21	Theory: The History of Indian Dance	Prac: Ram bhajan
May+June	05+15	Theory: contd.	Pracc. Contd. - Ram Bhajan
July	22	Theory: Tandav – Lasya	Prac: Previous choreography of Inter DPS
August	22	Theory – Mudra - Sanyukt - Asanyukt	Prac: Fusion - A: Giri Nandini.
September	19	Theory: Nataraj - the lord of Dance	Project: Miniature or PPT on Indian dance / Nataraj
October	18	Theory – Abhinaya & its four aspects	Pract. – A choreography on the season “Rain”
November	16	Theory: Natya, Nritya, Nritya	Practical contd.
December	20	Theory- Contd..	Pract. – contd.
January	17	Theory – “Nava Rasa” The relation between Natya, Nritya, Nritya	Pract. – “Nava Rasa”
February	21	Theory – Bhav	Revision + Exam

Subject : PHOTOGRAPHY

Month	W.D.	Particulars
April	21	Image formation in SLR camera Cameras 135mm, 110mm, 120mm for SLR Min TLR camera Learning outcome : Information , Knowledge
May	05	Making of photo album Photography Raw material (film + paper) Learning outcome e : Doing yourself
June	15	Eye and camera lens . Learning outcome: Co-operation
July	22	Colour photography (system). Use of light, high light, filter, lens. Learning outcome :Brain exercise
August	22	Digital Photography. Learning outcome: Acceptance of others

September	19	Emulsion and Chemicals (Developing agent) Practical Exam (learningoutcome : Advantage) Learning outcome: Acceptance of other information Half Yearly Examination
October	18	Different type of film base + paper base Enlarge a photograph. Learning Outcome: Information
November	16	Digital photography special effect Practical Photography Learning Outcome: Knowing by Doing
December	20	Colour printing technique (manual and auto). Learning outcome : Implementation
January	17	Precautions before clicking a picture Value: Knowing by doing
February	21	Prac + Exam. Team work Annual Examination

Subject : Sculpture

Month	W.D.	Particulars
April	21	Sitting sculpture
May+June	05+1	Sitting sculpture (compact shapes)
	5	Project: Sitting sculpture with Armeture
July	22	Mask (Different Expression)
August	22	Wall Hanging item
September	19	Wall Hanging
October	18	Terracotta Murals
November	16	Terracotta Murals (Mould/casting) Project: Portrait or Head Study
December	20	Head Study (Clay modeling)
January	17	Head Study / Portrait
February	21	Paper Maise Work (Mould & Casting)

Subject : INSTRUMENTAL MUSIC (Spanish Guitar)

Month	W.D.	Particulars (Theory & Practical)
April	21	Finger practice on all six strings Value: Discipline
May	05	Notation of Dancing Eyes Value: Enjoyment
June	15	Chords of C & Cm accompaniment Value: Poetry
July	22	Accompaniment in 'G' scale and tune of Last Waltz Value: Respect
August	22	Arpeggio in D minor and Raag Des Value: Time Management
September	19	Revision Half Yearly Examination Project : make a tune on raag des Assignment: make D minor scale relation chords
October	18	Accompaniment in A minor Value: Relation between others
November	16	Over the Rainbow with chords

December	20	Value: Togetherness Accompaniment in B minor Value: Poetry
January	17	Running around Accompaniment in D minor Value: Connectivity – How to connect yourself with others
February	21	Revision Annual Examination

Subject : TABLA

Month	W.D.	Particulars
April	20	शास्त्र :- तबला तथा अन्य वाध्य मिलाना तथा अभ्यास । Learning Outcome: बच्चो को वादन का रख रखाव एवं सुरक्षा के विषय मे जानकारी देना
May+June	06+15	क्रियात्मक :- फरमाइसी कमाली चक्रदार परन लेखन अभ्यास । विशेष प्रकार के बोलो का अभ्यास ।
July	21	शास्त्र :- Western Music Instrument Practice Learning Outcome: एक वाध्य से दूसरे वाध्य को बजाने का तरीका
August	23	शास्त्र :- आड़ कुआड़ बिआड़ लयकारी लेखन क्रियात्मक :- लयकारी अभ्यास । Learning Outcome: विशेष लयकारी बच्चो को बताना
September	19	शास्त्र :- भरत मुनी नाट्य शास्त्र लेखन क्रियात्मक :- संगत अभ्यास Learning Outcome: शास्त्र विशेष ज्ञान
October	15	क्रियात्मक :- तबला, तथा वाद्य अभ्यास बच्चो को वादन के प्रति सटीकता एवं सहजता के साथ परिपक्वता प्रति प्रेरित करना
November	23	क्रियात्मक :- गजल, गीत—भजन के साथ संगत करने का तरीका एवं अभ्यास सहजता के साथ संगत करने का ज्ञान
December	17	क्रियात्मक :- तबले के सूक्ष्म स्वरूप का अभ्यास वाद्य प्रदर्शन एवं वादन मे निखार लाना
January	16	क्रियात्मक :- Western एवं भारतीय संगीत के बीच के बीच सामंजस्य क्या है । संस्कृति सभ्यता के बीच समानता क्या?
February	22	क्रियात्मक :- अभ्यास ।

Subject : Vocal Music

Month	W.D.	Particulars
April	21	Revision, 5 Alankars in Todi Thaata, Introduction of Raag Multani/Todi Learning outcome: Elaborate Arranged Part of Details.
May + June	05+15	Definition of Bhajan and Ghazal (Brief History) Raga Multani/Todi contd. with Bandish and 8 & 16 matra taan and sargam Brief history of Thumri and Qawwali. Learning outcome: Know The History of types of singing.
July	22	Project- Write about Indian instrumental music. Taal Char Taal, Dhamar taal with dugun practice with hand's bit. Song – Jay Jay bharat Learning outcome: Self Improvement and Discipline.
August	22	Song from Almanac – Hoga kal sunhara and gaye ja aye rahi, Raga Multani contd.

September	19	Learning outcome: Progress Motivation. Revision Half Yearly Examination
October	18	Revision, 5 Alankars in Poorvi Thaata, Introduction of Raag – Basant / Raag Hamir Project – Making a song on school life. (group-wise) Learning outcome: Knowing by doing
November	16	Song from Almanac – Raag Hamir contd. With Bandish 8 mantra and 16 mantra taan and Biography of Ustaaad Bade Ghulam Ali Khan Learning outcome: History of musical person
December	20	Revision
January	17	Revision
February	21	Annual examination

Subject: General Knowledge

BOOK—ARIHANT-OBJECTIVE GENERAL KNOWLEDGE

Month	W.D.	Particulars
April+ May	20 + 6	India: Important facts Physical Features of India The Universe & Solar System, The Earth-Imp. Facts
June	15	Sources And features of our constitution Fundamental Rights, Duties, Directive Principles, Citizenship
July	21	Revolt of 1857, Indian National Movement World: Climate, Agriculture and industries The Union Executive, Legislature
August	23	Physics- Page 224-229 Chemistry- page 235-238 Biology – Page 245- 250 Industries and foreign trade of India Local Self-Govt & e-Governance
September	10+6+3	Revision for half yearly examination Half Yearly Examination Defence- Page 254-256, Personalities
October	18	Space & Nuclear Technology- pg 259-261 Bio & Nanotechnology- pg 265-268
November	16	Superlatives, Books & authors, Sports world
December	20	Revision & Pre-Board Exams

Subject : KUCHI PUDI DANCE

Month	W.D.	Particulars	Integrated Values
April	21	General Introduction origin, Nature, scope to the technique based on the Natva Sastra-Abhinaya dharpan.	Learning about dance, Dance as an Art form and Entertainment.
May+June	05+1 5	Basic concepts, Nritya Nrutta and Natya. Number of Rasas and Bhavas.	Introducing students to exciting, daring exer-changing and dynamic world of dance.
July	22	Abhinayas:- Dhrarmi's Nayaka lakshanas Nayaki Lakshanas.	Deep learning is an aspect of artificial Intelligence.
August	22	Accompaniment used in a Dance concert How to perform on the Stage Expressions all.	That is concerned with emulating the learning approach that human beings use to gain ceotaing types of knowledge.
September	19	Revision and Half Yearly examination	

October	18	Description of Golla Kalapam, Bhatya kalapam and yaksha gana's.	They only know that was in the data they trained on
November	16	Introduction of Andhra Natyam, Navajanard haca Perijatham and Periui shiva Tandavam.	Deep leaning applications could have big Impact on big Data.
December	20	Four kinda of Abhinahyas Aanghika, Vaachika Aaharya, and Satvika.	Class discussion:- A discussion helps indentify and understanding.
January	17	Technical view of Indian classical dances and Indian folk dances	Cooperative learning activities; Students work in group to solve a problem or have a Structured discusseion andIndependent Practice.
February	21	Arangratham:- about Nattuvanar- Swar and Sangeeth- introduction of natya Sastra.	

Subject: Quiz

Month	WD	Contents
April	21	Ancient India Medieval India Modern India
May	08	Freedom Struggles
June	15	Books and Authors, Festival India International Borders, Current Affairs
July	21	Lakes of India, parliament of different countries, Sports (Olympics), current Affairs
August	23	Sports Trophies, Ports of India, Legendary bonds and songs
September	19	Revision
October	18	First in India and World, Revolution in modern World, current Affairs
November	16	Temples of India, economic quiz, North east India, North India
December	20	Historical pictures and some trivia related to them, Current Affairs
January	17	Invention and Investors, Politics and parties, movies and entertainment, Current Affairs
February	21	Revision

Subject: Electronics & Robotics-LEVEL-02			
Month	W.D	Contents	Activity/ Projects
April	21	<ul style="list-style-type: none"> Introduction to Basic Electronics and Robotics Electronics, Electrical, Mechanical & Information Technology Knowledge Electronics, Mechanical, Electrical etc. components and ingredients in Robotics 	<ul style="list-style-type: none"> Connect electrical and electronics components with the help of breadboard
May	05	<ul style="list-style-type: none"> Multimeter: Uses of Multimeter to measure voltage, current and resistance. 	<ul style="list-style-type: none"> Check the power supply voltage Find the resistances of a resistor
June	15	<ul style="list-style-type: none"> Basics electronic components: Resistors, Capacitors, Transistors, Diodes, LED etc Breadboard: (Small & Large), Connections on breadboard. 	<ul style="list-style-type: none"> Line Follower Robot that follows a line using infrared sensors
July	22	<ul style="list-style-type: none"> Electric Switch: Push button switch, Slide switch, Toggle switch, DPDT switches etc. Motors: DC motor, Servomotor, Stepper motor etc. Sensors: IR sensor, Ultrasonic sensor, Proximity sensor, Temperature sensor etc. 	<ul style="list-style-type: none"> Obstacle Follower & Phototropic Robot that follows obstacles and light Obstacle Avider & Photophobic Robot that avoids obstacles and light

August	22	<ul style="list-style-type: none"> • Wireless applications: Infra Red, Radio frequency etc. • Microcontroller and its programming language. • Arduino: An Introduction, Structure of an Arduino Sketch • Arduino Architecture - Pin Diagram 	<ul style="list-style-type: none"> • Maze Solver Robot that can navigate through a maze autonomously • Swarm Robots that communicate using radio frequencies to work together
September	19	<ul style="list-style-type: none"> • Revision + Activity+ Project 	
October	19	<ul style="list-style-type: none"> • Programming language, interfacing with hardware devices. • Bluetooth Technology: An Introduction, Functioning & Application • Bluetooth Module, Relays, Relay Driver Module, Control devices 	<ul style="list-style-type: none"> • Home Automation System using Bluetooth Module • Develop project based on the concept of Persistence of Vision
November	17	<ul style="list-style-type: none"> • Mobile Communication - Concepts & Applications • DTMF module: Working of a DTMF Decoder • Industrial Robots: Introduction & Applications, Types of Robotic Arms 	<ul style="list-style-type: none"> • Develop a mobile-controlled robot using DTMF(Dual Tone Multiple Frequency
December	16	<ul style="list-style-type: none"> • Fabrication of Robotic Arm, Assembly of Gripper • Attaching the Gripper to the Robotic Arm • Internet of Things: Introduction & Applications • DHT sensors to detect humidity and temperature, Soil moisture sensor, LDR sensor, Water flow meter, PIR sensor 	<ul style="list-style-type: none"> • Robotic Arm using Arduino and Bluetooth • Develop and test an IoT based weather monitoring station. • Develop and test an IoT based smart irrigation system.
January	16	<ul style="list-style-type: none"> • IoT connectivity using ESP8266 Wi-Fi Module 	<ul style="list-style-type: none"> • Develop and test an IoT based Smart Water Monitoring System • Develop and test an IoT based Smart Building using PIR • Develop and test an IoT based Automated Street Lighting System
February	18	<ul style="list-style-type: none"> • Revision + Activity+ Project 	
