

DELHI PUBLIC SCHOOL
Bokaro Steel City

TERM AND MONTH-WISE SPLIT-UP SYLLABI FOR CLASS – IX FOR THE SESSION

2018-2019

Subject : **ENGLISH LANGUAGE AND LITERATURE**

TEXT BOOKS: BEEHIVE (Text book for class IX)
MOMENTS (Supplementary Reader)

MONTH	W D	TOPIC/CHAPTERS	ACTIVITIES/PROJECT PLANNED	VALUES INCULCATED	REAL LIFE SITUATION
APRIL	21	Beehive <ul style="list-style-type: none"> The Fun They Had The Road Not Taken Moments <ul style="list-style-type: none"> The Lost Child Grammar <ul style="list-style-type: none"> Determiners 	Diary Entry <ul style="list-style-type: none"> Each One Teach One Notice Writing <ul style="list-style-type: none"> Spelling Competition Quiz Competition Adult Education Poster Making <ul style="list-style-type: none"> Adult Literacy Report Writing <ul style="list-style-type: none"> Visit To An Old Age Home 	<ul style="list-style-type: none"> Students will develop an image of rural India through the given stories. They will appreciate Symbolism as a poetic device. 	<ul style="list-style-type: none"> Exploring and discussing various kinds of schools through ages. Analyzing and writing about children's emotions and characteristics.
MAY	05	Beehive <ul style="list-style-type: none"> The Sound of Music Grammar <ul style="list-style-type: none"> Determiners 	Project <ul style="list-style-type: none"> Wall Magazine Travelogue Writing 	<ul style="list-style-type: none"> Students will visualize music's role in an entirely different way. They will also know about Bismillah Khan in detail. 	<ul style="list-style-type: none"> Making a list of ways in which music has played an important role in the lives of people.
JUNE	15	Beehive <ul style="list-style-type: none"> The Little Girl Wind Moments <ul style="list-style-type: none"> The Adventures of Toto Iswaran – The Story Teller Grammar <ul style="list-style-type: none"> Verb Forms 	Article/Speech Writing <ul style="list-style-type: none"> Status of Water on Earth. Importance of Water Conservation. Inclusive Teaching <ul style="list-style-type: none"> Geography – Types of Winds. 	<ul style="list-style-type: none"> Students will read and appreciate critically on stories based upon psychology and misadventure. They will also analyze poems on nature. 	<ul style="list-style-type: none"> Studying and discussing various elements of nature and children's psychology.
JULY	22	Beehive <ul style="list-style-type: none"> A Truly Beautiful Mind The Snake and The Mirror Rain on The Roof The Lake Isle of Innisfree Moments <ul style="list-style-type: none"> In The Kingdom of Fools Grammar <ul style="list-style-type: none"> Tense Active and Passive Voice 	<ul style="list-style-type: none"> Collection of Articles from Newspapers for further enhancement of Article Writing. Topics – Honesty/Kindness/ Benevolence 	<ul style="list-style-type: none"> Students will understand and appreciate abstract Imagery in poems. They will also enjoy humour in the text to carry on the style for their writing. 	<ul style="list-style-type: none"> Exploring and sharing real life situations similar to the ones available in the given fictions.
AUGUST	22	Beehive <ul style="list-style-type: none"> My Childhood A Legend of The Northland 	Debate Writing <ul style="list-style-type: none"> We have got Independence but not the Freedom. 	<ul style="list-style-type: none"> Students will recall their own childhood through the given 	<ul style="list-style-type: none"> Sharing childhood experiences by the students in the classroom.

		Moments <ul style="list-style-type: none"> • The Happy Prince Grammar <ul style="list-style-type: none"> • Subject – Verb agreement 	Formal Letter <ul style="list-style-type: none"> • To Editor of a Newspaper on any contemporary issue. Project <ul style="list-style-type: none"> • On any Famous Personality. 	fiction. <ul style="list-style-type: none"> • They will understand the norms for preparing a debate. • They will feel about the sources of true joy. 	<ul style="list-style-type: none"> • Writing and sharing individual happy moments with friends.
SEPTEMBER	19	REVISION OF ALL SECTIONS FOR HALF – YEARLY EXAMINATION	- ALL WRITING FORMATS - BOOK REVIEW	-----	-----
OCTOBER	18	Beehive <ul style="list-style-type: none"> • Packing • Reach for the Top • No Men are Foreign Moments <ul style="list-style-type: none"> • Weathering The Storm In Ersama Grammar <ul style="list-style-type: none"> • Modals 	Speech Writing <ul style="list-style-type: none"> • On ‘Non-availability of civic sense among the citizens. Group Discussion <ul style="list-style-type: none"> • ‘Conflict is not synonymous with anger but tolerance’. 	<ul style="list-style-type: none"> • Students will be able to enjoy comedy in a literary text. • They will reflect upon the similarities among all human beings irrespective of country, region or race. • They will know about some true account of courageous acts. 	<ul style="list-style-type: none"> • Finding more instances of courageous deeds by different legends and making a collection of the same.
NOVEMBER	16	Beehive <ul style="list-style-type: none"> • The Bond of Love • The Duck and The Kangaroo Moments <ul style="list-style-type: none"> • The Last Leaf Grammar <ul style="list-style-type: none"> • Reported Speech 	Poster Making <ul style="list-style-type: none"> • On Some Sportive Event 	<ul style="list-style-type: none"> • Students will develop a new perspective for reading and appreciating ‘Fables’. • They will also feel their own emotional world. 	<ul style="list-style-type: none"> • Reading and sharing more fables and elaborate messages.
DECEMBER	20	Beehive <ul style="list-style-type: none"> • Kathmandu • On Killing a Tree Moments <ul style="list-style-type: none"> • A House Is Not A Home • The Accidental Tourist Grammar <ul style="list-style-type: none"> • Preposition • Connectors 	Story Writing <ul style="list-style-type: none"> • On the basis of given Inputs/Guidelines. 	<ul style="list-style-type: none"> • Students will understand the ways of writing a Descriptive Note. • They will also understand the concept of home and family. 	<ul style="list-style-type: none"> • Exploring ‘Hardy Boys’ for the knowledge about their philosophy and principles.
JANUARY	17	Beehive <ul style="list-style-type: none"> • If I Were You • The Snake Trying • A Slumber Did My Spirit Steal Moments <ul style="list-style-type: none"> • The Beggar Grammar <ul style="list-style-type: none"> • Clauses 	Activity <ul style="list-style-type: none"> • Preparing value cards on various emotions and their reactive actions by human beings. 	<ul style="list-style-type: none"> • Students will appreciate a ‘One-Act Play’ and learn various ways of articulating dialogues. • They will be able to look into one’s emotional world irrespective of his circumstances. 	<ul style="list-style-type: none"> • Enacting the different happenings of the given play. • Writing Skits on various Funny Happenings in real life.

FEBRUARY	21	COMPLETE REVISION FOR ANNUAL EXAMINATION	REVISION OF ALL THE FORMATS, LAYOUTS AND INPUTS FOR THE CONTENT OF WRITING SECTION	----	----
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Subject : Communicative Skills

Month/s	W. D.	Chapter/ Activity
April + May	21 + 5	Introduction (Formal and Informal) <ul style="list-style-type: none"> • Group Discussion • Etiquettes and Mannerisms • Reading the extract from <i>Ignited Minds</i>
June	15	Ted talks on Effective Communication(Think fast, Talk Smart) Legendary Speeches: <ul style="list-style-type: none"> • Winston Churchill • Martin Luther King Jr. • Swami Vivekananda • Group Discussion General Knowledge and Current Affairs
July	22	Where you perceive yourself is where you find yourself: <ul style="list-style-type: none"> • Ted talk on Draw your future • Elocution and Declamation • <i>My Native Land</i> by: Sir Walter Scott • <i>Construction versus Creation</i> by: Rabindranath Tagore • Group Discussion
August	22	Speeches of Nationalist leaders: <ul style="list-style-type: none"> • Subhash Chandra Bose • Mahatma Gandhi • Group Discussion General Knowledge and Current Affairs
September	19	Being at the centre of attention: <ul style="list-style-type: none"> • Creating an Appealing impression General Knowledge and Current Affairs
October	18	REVISION Half Yearly Examination <ul style="list-style-type: none"> • Debate on relevant topics. • Narrating Humorous experiences. <ul style="list-style-type: none"> • Group Discussion • Listening to humorous speeches: Bill Gates
November	16	<ul style="list-style-type: none"> • Extempore: Environmental Issues. • Significance of coherence, stress and emphasis in public speaking.
December	20	<ul style="list-style-type: none"> • Recitation of poems from text • Word game: Vocabulary Enhancer • Narrating personal experiences.
January	17	<ul style="list-style-type: none"> • Non–Violence is the first article of my faith by M.K. Gandhi • Expressing sympathy and offering condolences.
February	21	<ul style="list-style-type: none"> • Group Discussion • General Knowledge and current affairs • Revision

ANNUAL EXAMINATION

विषय – हिन्दी

निर्धारित पुस्तकें –

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

माह	कार्य-दिवस	निर्धारित पाठ्यक्रम	गतिविधियाँ / मूल्य बोध परियोजना
अप्रैल	21	क्षितिज – गद्य खंड – प्रेमचंद – दो बैलों की कथा पद्य खंड – कबीर दास – साखियाँ एवं सबद । कृतिका – फणीश्वर नाथ रेणु – इस जल प्रलय में (क्रमशः) व्याकरण – शब्द निर्माण – उपसर्ग, प्रत्यय ।	क. वाद-विवाद विषय- जानवरो । पशु पक्षियों को पालतू बनाना उचित है ।
मई	05	व्याकरण – निबंध लेखन व पत्र लेखन	ख.वन्य प्राणी संरक्षण, दुधारू पशुओं का संरक्षण पालतू पशुओं का संरक्षण, पक्षियों के संरक्षण के लिए क्या क्या प्रयास किए जा सकते है ।
जून	15	क्षितिज – गद्य खंड – राहुल सांकृत्यायन-ल्हासा की ओर पद्य खंड – ललदयद – वाख कृतिका – इस जल प्रलय में । व्याकरण – शब्द निर्माण – समास(क्रमशः)	क. तिब्बती समाज की विशेषताएँ से सम्बन्धित कार्य- प्रपत्र ख.कश्मीर परिचय के झरोखे से । कार्य प्रपत्र ।
जुलाई	22	क्षितिज – गद्य खंड – श्यामाचरण दूबे – उपभोक्तावाद की संस्कृति पद्य खंड – रसखान – सवैये । कृतिका – मृदुला गर्ग – मेरे संग की औरतें । व्याकरण – समास वाक्य भेद (अर्थ की दृष्टि से) प्रतिवेदन लेखन ।	क. रसखान के सवैयों का सुमधुर वाचन । गायन ख. कृष्ण जीवन से संबंधित अन्तर्कथाएँ ।
अगस्त	22	क्षितिज – गद्य खंड – जाबिर हासैन – साँवले सपनों की याद । पद्य खंड – माखनलाल चतुर्वेदी – कैदी और कोकिला, सुमित्रानंदन पंत – ग्राम श्री कृतिका – मृदुला गर्ग – मेरे संग की औरतें । व्याकरण – अलंकार – शब्दालंकार अनुप्रास, यमक, श्लेष । अर्थालंकार – उपमा, रूपक, अल्पेक्षा,	क. प्रसिद्ध स्वतंत्रता सेनानियों का परिचय । ख. वाद-विवाद गाँवों से शहरों की ओर पलायन सही है । ग. स्त्रियों को विवाह के पश्चात उपनाम बदल लेना चाहिए – वाद-विवाद ।

सितम्बर	19	<p>क्षितिज – गद्य खंड – पुनरावृत्ति । पद्य खंड – पुनरावृत्ति । कृतिका – पुनरावृत्ति । व्याकरण – पुनरावृत्ति, लिखित अभ्यास । अर्द्धवार्षिक परीक्षा</p>	<p>क. प्रेमचंद की किसी एक कहानी का नाट्यरूप में मंचन कीजिए । (नाट्य रूपांतरण एवं मंचन) ।</p>
अक्टूबर	18	<p>क्षितिज – गद्य खंड – चपला देवी – नाना साहब की पुत्री देवी मैना को भस्म कर दिया गया । हरिशंकर परसाई – प्रेमचंद के फटे जूते । पद्य खंड – केदार नाथ अग्रवाल – चन्द्र गहना से लौटती बेर । कृतिका – जगदीशचन्द्र माथुर – रीढ़ की हड्डी । व्याकरण – अलंकार – अनुप्रास, यमक, श्लेष, उपमा, रूपक, उत्प्रेक्षा, अतिशयोक्ति मानवीकरण । (पुनरावृत्ति)</p>	<p>क. वाद-विवाद लड़कियों की उच्च शिक्षा विवाह में बाधक है । ख. प्राकृतिक सौन्दर्य से सम्बन्धित चित्रों को बनाकर चार्ट पेपर पर चिपकाना ।</p>
नवम्बर	16	<p>क्षितिज – गद्य खंड – महादेवी वर्मा – मेरे बचपन के दिन । पद्य खंड – सर्वेश्वर दयाल सक्सेना – मेघ आए । चंद्रकांत देवताले-यमराज की दिशा कृतिका – विद्यासागर नौटियाल – माटी वाली । व्याकरण – वाक्य भेद (अर्थ की दृष्टि से)</p>	<p>क. लड़कियों के प्रति भेदभाव हमारे देश और समाज की उन्नति में बाधक है – वादविवाद । ख. आज के परिवेश में 'अतिथि देवो भव' की प्रासंगिकता । (परिचर्चा)</p>
दिसम्बर	20	<p>क्षितिज – गद्य खंड – हजारी प्रासाद द्विवेदी – एक कृत्ता और एक मैना । पद्य खंड – राजेश जोशी – बच्चे काम पर जा रहे हैं । कृतिका – शमशेर बहादुर सिंह – किस तरह आखिरकार मैं हिंदी में आया । व्याकरण – समास (पुनरावृत्ति)</p>	<p>क. किसी पशु-पक्षी से बातचीत का संवाद लेखन व प्रस्तुती करण । ख. हिन्दी के प्रमुख कवियों/साहित्यकारों के चित्र इकट्ठाकर चित्र के नीचे उनकी विशेषताएँ बताते हुए एक – दो पंक्तियाँ लिखिए तथा सचित्र फाइल तैयार कीजिए ।</p>
जनवरी	17	<p>क्षितिज – गद्य खंड – पुनरावृत्ति । (लिखित अभ्यास) पद्य खंड – पुनरावृत्ति । (लिखित अभ्यास) कृतिका – पुनरावृत्ति । (लिखित अभ्यास) व्याकरण – उपसर्ग, प्रत्यय पुनरावृत्ति (लिखित अभ्यास) निबंध लेखन, पत्र लेखन, प्रतिवेदन लेखन ।</p>	<p>क. पुनर्वास से जुड़ी समस्याओं पर समूह चर्चा । ख. बच्चे/ बचपन पर आधारित स्वरचित अथवा संकलित कविता का (कविता) वाचन ।</p>

फरवरी	21	क्षितिज – गद्य व पद्य – पुनरावृत्ति । कृतिका – पुनरावृत्ति । व्याकरण – पुनरावृत्ति । सी.बी.एस.ई प्रतिदर्श प्रश्न पत्रों का लिखित अभ्यास । वार्षिक परीक्षा	क. ऐसी है मेरी माँ – लेखन व वाचन ।
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विषय – संस्कृत

पाठ्यपुस्तके – (1) शेषुषी (भाग-1) (संशोधित संस्करणम्) – रा.शै.अनु.प्र.परि.
(2) अभ्यासवान् भव (संस्कृत-अभ्यास-पुस्तकम् भाग-1) – रा.शै.अनु.प्र.परि.

सहायक पुस्तकानि – (1) सरस्वती-मणिका-संस्कृत व्याकरणम् (भाग-1) – हरिओऽम् शास्त्री
(2) प्रायोगिक-संस्कृत-व्याकरण-कक्षा-9 – डा.परमानन्द गुप्त ।
(3) संस्कृतसहचर-आचार्य राधामोहन उपाध्याय, श्री घनश्याम पाण्डेय ।
(4) व्याकरणवीथि: – रा.शै.अनु.प्र.परि.

मासाः	कार्यदिवसाः	पाठ्यक्रमः	अन्यगतिविधयः
अप्रैल + मई	21 + 05	पाठौ – 1. भारतीवसन्तगीतिः 2. स्वर्णकाकः । अ0 पु0 – क. संस्कृतवर्णमाला, ख. उच्चारणस्थानानि, ग. वर्णसंयोजनम् वर्णवियोजनम् च । स्वरसन्धिः – दीर्घः, गुणः, वृद्धिः च । उपपदानि – द्वितीया – समया, प्रति, धिक्, विना, अभितः, परितः, उभयतः तृतीया – विना, अलम्, काणः – अंगविकारः, सह, मूल्यशिक्षा – 1. जनजागरणम् 2. लोभस्य दुष्परिणामः क्रियाविधिः – छात्राः सरस्वत्याः सूक्तीनां चयनं करिष्यन्ति । जीवनकला – देशप्रेम पर्यायमेलनं विलोममेलनञ्च	अजन्तशब्दरूपाणां स्मरणम् सन्धेः अभ्यासकार्यम् (पाठात् सन्धिपदानि चित्वा) श्लोकानां भावार्थम् अन्वयं च लेखनीये ।
जून	15	पाठः – 3. सोमप्रभम् अ0 पु0 – व्यञ्जनसन्धिः – 'म्' स्थाने अनुस्वारः, णत्वविधानम्, वर्गीय-प्रथम-अक्षराणां तृतीयवर्णे परिवर्तनम्, 'र्' पूर्वस्य रेफस्य लोपः दीर्घस्वरत्वं च, 'त्' स्थाने 'ल्' । विसर्गसन्धिः – विसर्गस्य उत्त्वम्, रत्वम्, उपपदानि – चतुर्थी – नमः, स्वाहा, स्वस्ति, कुप् मूल्यशिक्षा – नारीसम्मानः जीवनकला – वधूः पुत्रीवत् रक्षणीया	अनुच्छेदलेखनाभ्यासः सर्वनामशब्दानां स्मरणम् । 'यौतकप्रथा' इति विषयमाधृत्य अन्तर्विषयपरियोजना-कार्य म्-1
जुलाई	22	पाठौ – 4. कल्पतरुः 5. सूक्तिमौक्तिकम्	पत्रलेखनाभ्यासः

		अ०पु०— अजन्तशब्दाः— पुल्लिङ्ग—अजन्ताः —अकारान्ताः—बालकवत्, इकारान्ताः—कविवत् स्त्रीलिङ्ग—अजन्ताः —आकारान्ताः—रमावत्, ईकारान्ताः—नदीवत् नपुंसकलिङ्ग—अजन्ताः —अकारान्ताः—फलवत्,इकारान्ताः—वारिवत्, सर्वनामशब्दाः — तत्, किम्, (त्रिषु लिङ्गेषु) । उपपदानि —पञ्चमी—ऋते, बहिः, अनन्तरम्, भी, मूल्यशिक्षा— 1. सर्वेषु दया करणीया । 2. परोपकारः क्रियाविधिः—सुभाषितानां चयनम् । जीवनकला— प्रियवाक् वदेत् ।	उपपदानां शब्दरूपाणां च स्मरणम् ।
अगस्त	22	पाठः — 6. भ्रान्तो बालः अ० पु० — धातवः — परस्मैपदिनः — भू, पठ्, अस् पंचलकारेषु आत्मनेपदिनः — सेव्, लभ्— लट्—लृट् लकारयोः प्रत्ययाः — अ० पु० — प्रत्ययाः— तुमुन्, क्त्वा, ल्यप् च । उपपदानि —षष्ठी—पुरः, अधः, अन्तः, उपरि सप्तमी— चतुरः, प्रवीणः, श्रेणीनिर्धारणम् मूल्यशिक्षा—वृथा समयः न यापनीयः । जीवनकला— समयस्य सदुपयोगः	अन्तर्परीक्षा—1 प्रत्ययानां प्रयोगाभ्यासः चित्रवर्णनम्, शीर्षकाधारित— अनुच्छेदलेखनम् आत्मनेपदिनां परस्मैपदिनां च धातूनां स्मरणम् नियतकार्यम्—2 पर्यायविलोमपदानाम् अभ्यासकार्यम्
सितम्बर	19	पाठ्य पुस्तकस्य 1—6 पाठान् पर्यन्तं पुनरावृत्तिः । पाठ्यक्रमानुसारम् सम्पूर्णव्याकरणस्य पुनरावृत्तिः च । मूल्यपरकप्रश्नानाम् अभ्यासः मध्यावधिपरीक्षा द्वितीयसत्रस्य पाठ्यक्रमः	अपठितगद्यांशाभ्यासः विविधसन्देहनिवारणम् पत्रलेखनाभ्यासः च
अक्टूबर	18	पाठाः — 7. प्रत्यभिज्ञानम् 8. लौहतुला मूल्यशिक्षा—1. चौर्यं न कर्तव्यम् 2. कलहः न करणीयः जीवनकला— सर्वदा न्यायपथि चलनीयम् । क्रियाविधिः— छात्राः महाभारतं रामायणं च पठिष्यन्ति ।	संख्यावचकशब्दरूपाणां स्मरणम् हलन्तशब्दरूपाणां स्मरणम् पत्रलेखनाभ्यासः उपपदानाम् अभ्यासः । 'प्रत्यभिज्ञानम्' इति पाठाधारितसाकल्याध्यापनं

		अ० पु० – क. उपसर्गाः-22 ख. संख्यावाचकशब्दानां रूपाणि –एक,द्वि,त्रि, चतुर् । (त्रिणु लिंगेणु कारकप्रयोगाः (कर्त्ता-कर्म – सम्बोधनम्) पर्यायमेलनं विलोममेलनञ्च पाठौ-	स्मार्ट बोर्ड माध्यमेन (Integrated Teaching)
नवम्बर	16	पाठौ- 9 .सिकतासेतुः 10. जटायोः शौर्यम् मूल्यशिक्षा-श्रमेण सिद्धिः लभ्यते । जीवनकला- नारीसुरक्षा कर्त्तव्या । अ० पु० – करणकारकम् सम्प्रदानकारकम्	प्रत्ययानां प्रयोगः अव्ययपदानाम् अभ्यासः ।
दिसम्बर	20	पाठाः- 11.पर्यावरणम् 12. वाङ्मनःप्राणस्वरूपम् मूल्यशिक्षा-पर्यावरणं रक्षणीयम् । क्रियाविधिः-छात्राः वृक्षारोपणं करिष्यन्ति । जीवनकला- छात्राः मधुरवाक् वक्तुं यतिष्यन्ते । अ० पु० – 14. अपादानकारकम् 15. सम्बन्धपदप्रयोगः 16. अधिकरणकारकम्	अन्तर्परीक्षा-2 नियतकार्यम्-3
जनवरी	17	पर्यायविलोमपदानाम् अभ्यासकार्यम् श्लोकभावार्थान्वययोः अभ्यासकार्यम् मूल्यपरकप्रश्नानाम् अभ्यासः अभ्यासप्रश्नपत्राणाम् अभ्यासः	शीर्षकाधारितानुच्छेद – लेखनाभ्यासः, पत्रलेखनाभ्यासः, अपठितगद्यांशाभ्यासः ।
फरवरी	21	पाठ्यपुस्तकस्य 1-12 पाठपर्यन्तं पुनरावृत्तिः । पाठ्यक्रमानुसारम् सम्पूर्णव्याकरणस्य पुनरावृत्तिः ।	छात्राणां सन्देहानां निवारणम् ।

वार्षिकी परीक्षा

Subject : Mathematics

Prescribed Text Book : 1. Mathematics for Class – IX (NCERT)
2. Maths Lab Manual – Laboratory Manual in Mathematics Class IX (Rohit Publication)

Reference Books : 1. Secondary School Mathematics for class 9: By: Dr. R.S. Aggarwal, Bharti Bhawan.
2. CBSE Mathematics for Class IX – By Dr. K.C. Sinha.
3. Mathematics Class IX (Volume 1&2) : By Manjeet Singh – Full Marks Pvt Ltd

Month	W.D.	Topics to be taught	Activity/Project
April	21	<p>1. Number System Review (Natural numbers, Integers, rational nos. on the number line. Representation of Terminating / non terminating recurring decimal on the number line). Irrational numbers. Real numbers and their decimal expression. Representing real nos. on the number line, operations on real numbers. Laws of exponents for real numbers.</p> <p>2. Polynomials Introduction (Defn., coefficients, degree, constant, linear, quadratic, cubic, monomial, binomial, trinomial, zero polynomial) Polynomials in one variable, Zero of a polynomial. Remainder theorem, Factor theorem, Factorization of Polynomials (quadratic & cubic using factor theorem.) Algebraic Identities.</p>	<p>2) Sharing 3) Discipline 4) Responsibility 7) Team Work</p> <p>Lab Manual [1, 2, 3] 10) Fostering respect for differences 9) Courtesy</p>
May	5	<p>2. Polynomials (contd..) Algebraic Identities.</p>	Lab Manual 4 One Project
June	15	<p>5. Geometry Introduction to Euclid's Geometry Euclid's definitions, Axioms and Postulates. Equivalent version of Euclid's fifth postulate. 6. Lines and Angles Introduction, Basic terms and definitions, Intersecting lines and Non intersecting lines, Pair of angles, Parallel lines and a transversal, Lines parallel to same line. Angle sum property of triangle.</p>	<p>Lab Manual 5, 6</p> <p>2) Sharing 2) Compassion 3) Discipline 5 4) Owning Responsibility 7) Team Work</p>
July	22	<p>6. Lines and Angles (contd.) Congruence of triangles. Criteria for congruence of triangles. Some properties of a triangles, some more criteria for congruence of triangles. Inequalities in a triangle.</p>	<p>Lab Manual 7,8 1) Good Behaviour in human interaction</p>
August	22	<p>7. Congruence (Contd.) 3. Co-ordinate Geometry Introduction, Cartesian System, Plotting a point in a plane. Focus on linear equation $ax+by+c=0$ by writing $y=mx+c$ & linking with the linear equation in two variables. 4. Mensuration (Heron's Formula) Introduction, Area of a triangle by Heron's formula, Application of Heron's formula in finding area of quadrilaterals.</p>	Lab Manual [9 & 10]
September	8+ 8+2	<p>Revision for Half Yearly Half yearly Examination Discussion of question paper</p>	4) Responsibility
October	18	<p>8. Quadrilaterals Introduction and angle sum property of quadrilateral. Types of quadrilateral. Properties of a parallelogram. Another condition for a quadrilateral to be a parallelogram Midpoint Theorem</p>	<p>7. Team work 2. Sharing and caring</p> <p>11, 12 , 13 & 14</p> <p>5) Respect for law &</p>

			order
November	16	<p>9. Area (Geometry) Introduction, Figures on same base and between the same parallels. Parallelograms & Triangles on the same base and between the same parallel lines.</p> <p>10. Circles Introduction, Circles and its related terms (a review). Angle subtended by a chord at a point. Perpendicular from the centre to a chord. Circle through three non collinear points. Equal chords and their distances from the centre. Angle subtended by an arc of a circle. Cyclic quadrilateral.</p>	15, 16 & 17
December	20	<p>11. Constructions Introduction, Basic Constructions. Some construction of Triangles.</p> <p>12. Surface Area and Volume Introduction, S.A. of a cuboid and a cube. Surface Area of a right circular cylinder. S.A. of a right Circular cone. S.A. of a sphere and Combined problems.</p> <p>13. Volume Volume of a cube, cuboid, volume of a right circular cylinder, cones and sphere and combined problems.</p> <p>14. Statistics Introduction, Presentation of data. Graphical representation of data. (A) Bar graphs, (B) Histogram, (C) Frequency polygon.</p>	One Project 6) Conflict Resolution 7) Team work 10) Fostering respect for differences Lab Manual 18, 19, 20
January	17	<p>Measures of Central Tendency (a) Mean, (b) Mode, (c) Median</p> <p>15. Probability Introduction, Probability – An experimental Approach</p> <p>8. Algebra Linear equation in two variables - Introduction. Linear equation, Geometric / Graphical i.e. presentation of a linear equation in two variables and solutions.</p>	2) Sharing, Compassion and Empathy
February	13+8	Thorough Revision For Annual Examination (Full Syllabus)	

Subject : Science & Tech. (Physics)

Prescribed Textbook : 1. Science and Technology – NCERT.
2. Lab Manual– Dinesh Publication

Reference Books : 1. Super Simplified Science – IX (S. Dinesh & Co.)
2. Foundation Science – IX (H. C. Verma) Bharti Bhawan

Month	W. Days	Contents	Projects / Activities
April	21	1. Motion : Distance and displacement, Velocity; Uniform and Non-Uniform motion along a straight line; acceleration, Graphical representation of motion	a) Graphical representation of various types of motion. b) Demonstration of uniform circular motion.
May	05	Velocity - Time graphs for uniform and non-uniform accelerated motion. Eqn. of motion by graphical method	
June	15	1. Motion (contd.) : Equations of motion by graphical method, uniform circular motion. 2. Force and Laws of Motion : Force, Balanced and Unbalanced force. First law of motion, Inertia & Mass. Momentum, force and acceleration.	To plot distance – time graph and find speed. To plot velocity-Time graph and acceleration
July	22	Laws of conservation of momentum, Second law of motion, Third law of motion, Action and Reaction.	
August	22	3. Gravitation : Gravitation, Universal law of Gravitation, Free fall body, Mass and Weight, Force of Gravitation of the earth, acceleration due to gravity, mass and weight, variation of g	d) To establish the relationship between weight of a rectangular wooden block using spring balance.
September	19	Revision Half Yearly Examination Discussion of Question Paper	
October	18	4. Work and Energy: Work done by a force, 1 Joule, Kinetic and Potential energy, Law of conservation of energy, Rate of doing work (Power).	1) To determine the density of solid (denser than water) by using a spring balance and a measuring cylinder.
November	16	5. Floatation: Thrust and Pressure, Archimedes Principle, Buoyancy, Elementary idea of relative density.	2) To establish the relation between the loss in weight of a solid. When fully immersed in - (i) tap water (ii) strong salt
December	20	6. Sound: Nature of sound, Propagation of sound, Sound waves are longitudinal waves, Speed of sound, Speed of sound in different medium. Reflection of sound, Echo in humans, Sonar, Ultrasound, Structure of Human Ear.	3) To verify laws of reflection for sound waves. 4) To determine the velocity of a pulse propagated through a slinky.
January	17	Doubt clearance & Exercise Revision	
February	21	Revision for Examination	

Subject : Science & Tech. (Chemistry)

Prescribed Textbook : 1. NCERT.

Reference Book : Foundation Science – IX (Bharti Bhawan)
Super Simplified (S. Dinesh & Co.) - IX

Month	W. Days	Contents	Suggestive Projects / Activities
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April	21	<p>Chapter – Matter : Nature and Behaviour</p> <p>Definition of matter, Solid, liquid and Gas;</p> <p>Characteristics – shape, volume density; Change of State – Melting (absorption of heat)</p>	<p>To carry out the following chemical reactions also to identify the type of reaction involved in each case:</p> <p>i) Iron with $CuSO_4$ solution in water ii) Burning of Mg in air. iii) Zn with dil. H_2SO_4. iv) Heating of $CuSO_4 \cdot 5H_2O$ v) Na_2SO_4 with $BaCl_2$ in the form of their solution in water.</p>
May	05	<p>Chapter – Matter : Nature and Behaviour (contd...)</p> <p>Change of State – freezing</p>	<p>i) Contd.....</p> <p>To determine the melting and boiling point of ice. (to be discussed in the class only & not to be demonstrated.)</p>
June	15	<p>Chapter – Matter : Nature and Behaviour (contd...)</p> <p>Change of State – evaporation (cooling by evaporation)</p> <p>Condensation, Sublimation</p> <p>Discussion of exercises</p>	<p>1. To separate the components of a mixture of sand, common salt and ammonium chloride by sublimation.</p>
July	22	<p>Chapter - Nature of Matter :</p> <p>Elements, Compounds, Mixtures.</p> <p>Homogeneous mixture</p> <p>Heterogeneous mixture.</p> <p>Metals & Non-Metals, it's physical properties.</p> <p>Physical and chemical change, it's physical properties.</p>	<p>1. To prepare:</p> <p>a) Mixture b) Compound using iron fillings and sulphur powder and distinguish between these on the basis of</p> <p>i) Appearance i.e. homogeneity and heterogeneity. ii) Behaviour towards magnet iii) Behaviour towards CS_2 a solvent. iv) Effect of heat.</p>
August	22	<p>Chapter - Nature of Matter : (Contd...)</p> <p>True Solution, Colloids and Suspensions, Separation of Mixtures.</p> <p>Q/A discussion and exercises.</p>	<p>1. To prepare:</p> <p>a) True solution of common salt, sugar and alum.</p> <p>b) Suspension of soil, chalk powder and fine sand in water.</p> <p>c) A colloidal of starch in water and egg albumin in water and distinguish between these on the basis of :</p> <p>i) Transperacy ii) Filtration iii) Stability</p>
September	19	<p>Revision for examination.</p> <p>Discussion of Sample Paper</p> <p>Discussion of Q & A and exercises</p>	
October	18	<p>Chapter –Matter - Particle Nature, Basic Units -</p> <p>Atoms and molecules.</p> <p>Law of constant proportion, Law of conservation of mass.</p> <p>Atomic mass and Molecular mass.</p>	<p>To verify the law of conservation of mass in a chemical reaction.</p>
November	16	<p>Chapter - Particle Nature, Basic Unit (contd..)</p> <p>Molecular mass, Valency.</p> <p>Chemical formulae of common compounds using symbols. Relationship of mole to mass and number of particles. Illustration and numerical exercises.</p> <p>Chapter - Structure of Atom– Electrons,</p>	<p>To prepare a chart showing the valency of elements and chemical formulae of common compounds using symbols.</p>

December	20	Protons and Neutrons. Chapter - Structure of Atom (Contd...) Model of Atom, Merits and Demerits. Isobars and Isotopes. Chapter: Natural resources: Physical resources, Air, Water and Soil. Air : for respiration, for combustion, moderating temperature, movements of air and its role in rain across India. Air, Water and Soil Pollution (brief introduction) ozone layer hole and probable damage.	To prepare Charts of Isobar and Isotopes and their properties.
January	17	Doubt Clearance and Exercise Discussion of sample papers Revision.	
February	21	Revision for examination.	

Subject : Science & Tech. (Biology)

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

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

Month	W.Day	Topics	Activities /projects
April	21	Theme : The World of the Living Unit – III Organisation in the Living World Chapter 5 The Fundamental Unit of Life –What are living organisms made of, Structural organization of cell, Cell membrane, Cell wall, nucleus, Cytoplasm. Cell (Contd..) Cell organelles – Endoplasmic reticulum, Golgi bodies, Lysosome, Mitochondria, Plastids & Vacuoles	1. . To prepare stained temporary mounts of a) onion peel b) human cheek cell. & to record their observation & draw labelled diagram.
May	05	Unit – III Organisation in the Living World Chapter 6 Tissues – Are plants and animals made of same type of tissues	
June	15	Unit – III Organisation in the Living World Chapter 6 Tissues Plant Tissues – Meristematic , Simple & Complex Permanent tissues in plants. Structure and function of Animal tissues – Epithelial tissue	2. To identify parenchyma and sclerenchyma tissues in plants and to draw their labeled diagrams.
July	22	Tissues (Contd..) Structure and function of Animal tissues – Epithelial, Connective, Muscular, Nervous tissue. Theme - Food UNIT – 1 Food Chapter 15 Improvement in Food Resources- Improvement in crop yields - Crop variety improvement ,	3. To identify striped muscle fibres and nerve cells in animals from permanent slides and to draw their labeled diagrams.
August	22	UNIT – I – Food (Contd..) Crop production management - nutrient management, use of fertilizers, manures, irrigation, cropping patterns. Crop protection management - protection form pests and diseases, Storage of	

		grains ,organic farming. Animal Husbandry- cattle farming, poultry farming(Egg and broiler production), Fish production (Marine & Inland fisheries). Bee keeping.	
September	19	Revision Half Yearly Examination Paper Discussion Unit – III Organisation in the Living World Chapter 7 Diversity in living organism : Basis of classification.	
October	18	Biological Diversity (Contd.) : Classification and evolution. Nomenclature- Basic issues in scientific naming. The hierarchy of classification- Major groups like Monera, Protista, Fungi, Thallophyta. Bryophyta, Pteridophyta , Gymnosperms & Angiosperm. Major groups of animals (Salient features –Non chordates upto phylum and chordates upto classes) – Porifera , Coelentrata, Platyhelminthes, Nematoda , Annelida ,Arthropoda , Mollusca.	4. To study the characteristic feature of Spirogyra, Agaricus, Moss, Fern, Pinus (Male or female cone) and Angiospermic plant. Draw and give two identifying features of groups they belong to. 5. To study the external features of root, stem, leaf and flower of monocot and dicot plants.
November	16	Biological Diversity (Contd.) – Major groups of animals- Phylum Echinodermata , Chordates upto classes- Protochordates, Vertebrates (Pisces, Amphibians, Reptiles, Aves ,Mammals)	6. To observe and draw the given specimen of earthworm, cockroach, bony fish and bird. For each specimen record- a) One specific feature of its phylum b) One adaptive feature with reference to its habitat
December	20	Chapter 13 – Why do we fall ill ? Health & its failure- The significance of ‘Health’ Personal & Community issues both matter for health. Distinctions between healthy & disease free. Disease and its cause- Acute and chronic diseases, Chronic diseases and poor health, infectious and non-infectious causes, infectious diseases, infectious agents(Virus, Bacteria and Protozoans), Peptic ulcers. Means of spread, organ and tissue specific manifestations, Principles of treatment, Principles of prevention, Immunization, pulse polio programmes	
January	17	Theme – Natural Resources Unit IV Our Environment Chapter 14 Natural resources Biogeochemical cycles in nature – Water cycle, Nitrogen cycle, Carbon cycle, Oxygen cycle ; Greenhouse Effect. Revision	
February	21	Revision Annual Examination	

Subject : Social Science (History & Political Science)

Text Book:	1. India and the Contemporary World Part-I, Published by NCERT 2. Political Science; Democratic Politics Part-I, Published by- NCERT.		
Month	W.D.	Course Content	Project / Activities
April	21	Unit : I – History : <u>Sub Unit - 1.1. – The French Revolution of 1789-1815; Events and Process</u> i. Significance of the Revolution in shaping the identity of Modern world. ii. The Ancient Regime its France and its crises; French society in late 18 th Century. iii. Socio–Political Forces and other causes of the Revolution, outbreak and establishment of constitutional Monarchy in 1791. Unit : III – Political Science : <u>3.2. – What is Democracy? Why Democracy?</u> i. Meaning, and Features of Democracy. ii. Why democracy? Democracy Vs. Monarchy and Dictatorship. iii. Demerits of democracy and challenges to democracy in India	1. Album on :- A. The philosophers of Revolution in France. B. The Events of the Revolution; self-drawn or photocopies with relevant foot notes. UNIT : 3.1 Democracy Vs Dictatorship / Monarchy Case study - a. Poland, b.Chile, c.Egypt. “I am revolution and I destroyed the Revolution” A Project on Napoleon, Bonapart, Rome, Spain, Pope Hist. time line chart on events of French Revolution.
May + June	05 + 15	Unit : I – History (contd.) : iv. End of Monarchy and establishment of Republic in France 1793 – 94. v. The role of ideas and Women in the revolution. vi. Impacts of the Revolution and Legacies to the Modern World.	F.A. – 1 / F.A. – 2 Project Report on : The role of ideas and women in French Revolution. A. Time – Line Chart on the Events of the Revolution.
July	22	Unit : 1.2, Chapter 2 : Russian Revolution; 1. What is socialism and why socialism Vs. Capitalism and Imperialism. 2. The Crises of Tzarism in Russia and the Russian economy and society under Tzarism, 3. Growth of revolutionary Russia 1905-1917 and outbreak of the revolution. Sub Unit : 3.3. Designing of Democracy in India: 1. Why India adopted democracy? 2. Need of a constitution and the framing of the constitution 1946 – 1950. 3. The Guiding Values (Principles, ideologies and Philosophy) of Indian Constitution.	3.1 Report on the Debate Future of Democracy is bright under UN and US. P.Sc. Photo Album on the Makers of Indian constitution with needful foot notes. Hist: Time line chart on events of Russian Revolution
August	22	Sub Unit : 1.2. Russian Revolution (contd.) : 4. The changes in Russia after October Revolution 1917; (a) Making of Socialist Society and Lenin (b) Making of Communist society under Stalin. 5. The Global influence of the Revolution and its Legacies to the Modern World. Unit : 3.3 : Chapter – 3 (contd.) : 4. The salient features of Indian constitution. 5. How is democracy in India being constantly designed and redesigned.	Project On : A. Life and Achievements of Lenin / Stalin. Hist.: Map works on French Revolution (1789-1815)
September	19	Revision of SA-I Portion. (a) School Assignment (b) H.W. / C.W.	Inclusive with sports and games. The changing rules and regulations in Cricket.

		(c) Model Q. Paper on HY Half Yearly Examination	
October	18	Sub Unit – 1.3. Nazism and Rise of Hitler (i) First World War and Role of Germany (ii) Treaty of Versailles and its Impact on Germany (iii) Rise of Hitler as a Dictator and aggressive Foreign policy (iv) Characteristics of Dictatorship (v) NAZI: Ideologies, the main features	
November	16	Sub Unit: 3.4. (contd.) : (v) working of Democratic Institution. Indian Parliament, Composition, working procedure, law making process and parliamentary control over executives.	
		Sub Unit : 1.2.(5) Forest society and Colonialism: 1. The relationship between forest and livelihood. 2. Changes in Forest Management under British rule. a. Deforestation b. Rise of commercial forestry. 3. Forest Acts and its impacts on the life of Forest People. 4. Rebellion in Forest ; case study – Bastar, Java	
December	20	Sub Unit : 1.2.(5) Forest society and Colonialism: (contd.) Sub Unit 3.4. Chapter – 5, The institution of Parliamentary Democracy : 1. The President of India; Powers and position. 2. The Prime Minister and Union council of Ministers; Power and decision making process. 3. The Indian Judiciary; Supreme Court of India; composition and Jurisdiction.	3.4 “Rajya Sabha should be Abolished” A report on class debate. Group Discussion : (i) Corruption is the biggest threat to democratic set-up in India. (ii) Free and fair election is yet a challenge to Indian democracy
January	17	Sub Unit 3.5 : Chapter – 6, Democratic Rights : 1. Meaning and need of Rights in democracy. 2. Fundamental Rights granted under the constitution of India. 3. Independence of Judiciary and Protection of Fundamental Rights. Revision	Debate on : Expansion of Democratic Right in India shall be of no use unless people are not legally literate followed by report. 3.5 - The relevance of Legal Club in school Education in reference to supreme court order.
February	21	Revision of Annual Portion +portion of term I 1. C.B.S.E. Model Question Paper 2. Question – Answer session C.W. 3. School Assignment	Inclusive with legal literacy club

Subject: Social Science (Geography)

Text Book : 1. Contemporary India – I, NCERT
2. Together towards a Safer India Part-II, a Text book on Disaster Management for Class IX ; Published by CBSE

Month	W. Days	Topics	Inclusive Teaching	Project / Activities
April	21	<u>India : Size and Location :</u>	History:-	Activity:
+	+	- Location and Size	Ancient	1) Map Work
May	05	- India and the World - India's neighbours	India	a) India political b) Neighbouring countries

June	15	<u>Physical Features of India :</u> - The process of Tectonic forces and Plate Tectonics - Evolution of Relief Features.	Physics:- Movement of Plates	2) Quiz on facts of India
July	22	<u>Physical Features of India (contd.) :</u> - The Himalayan Mountains - The Northern Plains - The Peninsular Plateau - The Indian Desert, the Coastal Plains and the Islands.	Biology: Coral Reefs	Activity: Map Works: 1) World Plate Margins 2) India-Relief
August	22	<u>Drainage :</u> - Drainage Basin and Water-Divide - Drainage System in India - The Himalayan Rivers - The Peninsular Rivers - Lakes, Role of Rivers in the Economy - River Pollution	Chemistry: River Pollution History: Rivers are the Cradle of Ancient Civilization	Activity: Preparation of Charts a) Drainage Pattern b) River Profile c) Gradational Features of River Project: Ganga Action Plan Activity: Conservation of Water Resources
September	10	<u>Revision & half Yearly Exam Climate :</u>		
September + October	03 + 18	- Introduction to weather and climate and diversity in climatic conditions. - Climatic controls,		Activity: Preparation of chart showing major pressure belts and wind belts of the earth.
November	16	<u>Climate (Contd..)</u> - Factors Affecting India's climate - The Indian Monsoon - The onset and the withdrawal of Monsoon - The Seasons - Distribution of Rainfall - Monsoon as a Unifying Bond.	Physics – Coriolis Force Civics – Monsoon as a unifying bond	Projects: Managing Disasters – 1) The role of students. 2) Preparedness of a disaster.
December	20	<u>Natural Vegetation and Wildlife</u> - Diverse Flora and Fauna of India and the Factors Affecting such Diversity - Ecosystem and Biomes - Types of Vegetation - Wildlife and its conservation	Biology: Biodiversity, Ecosystem Geography Magazine	
January	17	<u>Population :</u> - Significance of studying population, the census, Distribution of population - Factors Determining Population change - Sex Ratio, Age Composition, Occupational structure. - Literacy, Health Status, Adolescent population, National Population Policy		
February	10	- Revision of Annual Examination Annual Examination		

Subject - Social Science (Economics)

Text/Reference Books – Understanding Economics – I, N.C.E.R.T., V.K. Publication.

Month	W.Days	Topics that will be covered	Learning Anecdotes & education- Objective, & Value
April + May + June	20 + 06 + 15	1. <u>The Story of a Village Palampur</u> : a. Palampur (imaginary village) b. Production, factors of production (Land, labour, Capital & enterprise) c. Features of various factors of production d. Payment to factors e. Consumption, saving and investment f. Non-farm activities g. Modern technology in farming and degradation of Land.	Know about the activities done by different workers and farmers . References from ‘malgudi days’ for description of villages Economic value: Use of modern technology in farming Team work among various factors of production Visit a few farms in a village and collect the details of food grains cultivated OR Examples of activities done by different workers and farmers. Anecdotes-Pictures showing lifestyle of an educated person and an illiterate Fostering respect for differences: Steps taken by the govt. for removing unemployment Economic value: Various economic activities undertaken OR Is it necessary to reduce population growth or family size? Discuss. Methods of transaction of goods and details of the places where the goods come and go. Visit a nearby ration shop and collect the details of goods available.
July + August	21 + 23	2. <u>People as a Resource</u> : a. What are resources? b. Meaning of Human Resource c. Human Capital, Difference between human and Physical Capital; Human Capital Formation. d. Economic and Non-Economic Activities, Types of economic activities; Difference between economic and non economic activities e. Development of Human Capital f. Role of education and health in human capital formation g. Unemployment h. Types of unemployment, causes of unemployment.	Anecdotes-Pictures showing lifestyle of an educated person and an illiterate Fostering respect for differences: Steps taken by the govt. for removing unemployment Economic value: Various economic activities undertaken OR Is it necessary to reduce population growth or family size? Discuss. Methods of transaction of goods and details of the places where the goods come and go. Visit a nearby ration shop and collect the details of goods available.
September	10+6 +3	Revision HALF YEARLY EXAMINATION	
October + November	15 + 23	<u>Poverty as a Challenge Facing India</u> : a. Who is poor (through two case studies; one rural one urban); Indicators; absolute poverty (not as a concept but through a few simple examples)	Understand the problems of resource allocation and budgeting

		b. Why people are poor; unequal distribution of resources c. Comparison between countries d. Steps taken by government for poverty alleviation.	Sharing, Compassion, Empathy: Steps taken by the govt. to remove poverty
December	16	4. <u>Food Security – Source of Food Grains</u> : a. Meaning of food security. b. Dimensions / parameters of food security c. Famines in the past. d. The need for self – sufficiency e. Role of government in food security f. Procurement of food grains – overflowing of granaries and people without food g. Public distribution system – types & features. h. Role of cooperatives in food security (food grains, milk and vegetables, ration shops, co-operative shops, two – three examples as case studies).	Able to distinguish between MSP, issue price and market price Anecdotes- Pictures showing Bengal famine and long queue outside PDS shop Fostering respect for differences: Steps taken by the govt. for providing food to all Economic value: Role of cooperatives in food security Appreciate the role played by the government and the problems faced by the farmers Visit a regulated market yard and observe how goods are transacted and get details of the places from where the goods come and go.
January	16	Revision	
February	22	Revision & Mock Test	
March	24	ANNUAL EXAMINATION	

Subject : CompSc(Wed)(Java on Netbeans)

Text Books – No Books

Month	W.D	Topics to be Covered
April+May	21+ 05	Programming with Java <ul style="list-style-type: none"> • Programs • RAD,IDE,JVM,,JDK,,JRE • History of Java • Features of Java Getting Started with IDE Programming <ul style="list-style-type: none"> • Introduction • Creating a new project in Netbeans • Creating a new frame Basics of GUI Java GUI Toolkit <ul style="list-style-type: none"> • Basic Graphical Controls of Swing. • To draw a control on a Frame/Window • To move/resize a control Working with some basic controls <ul style="list-style-type: none"> • Working with labels • Working with TextField, Label and Button components. Activity: Prepare a chart on features of Java
June	15	Programming Fundamentals

		<ul style="list-style-type: none"> • Introduction • Java character set
		<p>Tokens</p> <ul style="list-style-type: none"> • Keywords • Identifiers • Literals • Separators <p>Activity: Prepare a list of keywords in java. Prepare a chart on literals.</p>
July	22	<p>Operators in Java</p> <ul style="list-style-type: none"> • Arithmetic Operators(Binary) • Relational Operators • Logical Operators(and , or, not) • Assignment Operators • Other operators <p>Concept of data types</p> <ul style="list-style-type: none"> • Primitive data type • Declaration of variables • Initialization of variables <p>Text interaction in GUIs</p> <p>Wrapper class</p> <p>Activity: Preapre a ppt on operators in java.</p>
August	22	<p>Flow of Control</p> <ul style="list-style-type: none"> • Introduction • Programming Constructs <p>Selection Statements:</p> <ul style="list-style-type: none"> • if, if – else, if else if, nested if • switch case <p>Working with Swing controls:</p> <ul style="list-style-type: none"> • Radio button • Checkbox • Buttongroup <p>Activity: Design a simple interest form using radiobuttons</p>
September	19	<p>Revision & Practical Examinations</p>
October	18	<p>Assessment</p> <p>Iterative Statements</p> <ul style="list-style-type: none"> • Parts of a loop • Types of loop • do-while loop
November	16	<p>Iterative Statements</p> <ul style="list-style-type: none"> • while loop(variations in while loop) • for loop <p>Activity: Preparing Marksheet of student using various function and formulae.</p> <p>Activity: WAP to check whether the given number is a perfect no. or not.</p>
December	20	<p>Swing controls:</p> <ul style="list-style-type: none"> • ListBox • Commonly used properties of lists • Handling Item Selection <p>Activity:</p>
January	17	<p>Combobox</p> <ul style="list-style-type: none"> • Difference between listbox and combobox

- Commonly used properties of Combo Box
- Accessing items of combo box
- **Activity: Design a Student registration form using various swing control**

February 21 Revision & Practical Examinations
Assessment

Subject : Physical Education

Month	W. D.	Unit / Chapter
April to June	21+05 +15	<u>Chapter-1: General fitness, Drill, Chess, Badminton, Kabaddi, Volleyball, Basketball & Skating :</u> 1. Students will be learning about warming up (general & specific) 2. Free hand exercise & how to improve their motor skill abilities & fitness. 3. Students will be learning about basic & advanced skill of above mentioned games. 4. Selection will be done on the basis of their performance and command on the skill for Inter house, Inter DPS & CBSE cluster tournaments. 5. Students will learn the rules and regulation of above mentioned games. 6. Students will use the learnt skills in real match situations. 7. Students will be learning about different events of track and field like running, jumping and throwing events. 8. Recreational activities to release their stress and make them fit 9. Lead up activities(skill based) 10. Videos on Smart Board and P.P.
July to Sept.	22+22 +19	<u>Chapter-2 : Basketball, Volleyball, Football, Kabaddi, chess & Yoga :</u> 1. Selection will be done on the basis of their performance and command on the skill for inter house, inter DPS & cluster tournaments. 2. Students will learn the rules and regulation of above mentioned games. 3. Students will use the learnt skills in real match situations. 4. Fitness test-jumping, running ,sit-ups ,shuttle run 5. Students will learn about importance of yoga and will practice different asana. 6. Students will be checked through different asanas and tests(agility, flexibility, strength, speed and endurance) 7. Students will learn how to improve their motor skills abilities. 8. Recreational activities and lead up activities(skill based) 9. Videos on Smart Board and P.P.
Oct. & Nov.	18+16	Mid-Term Examination <u>Chapter-3 : Basketball, volleyball, football, cricket & kho- kho</u> 1. Students will be learning about warming up (general & specific) & free hand exercise & how to improve their motor skill abilities & fitness. 2. Students will learn the rules and regulation of above mentioned games. 3. Students will use the learnt skills in real match situations. 4. Psychological aspects of physical education. 5. Students will learn how to improve their motor skills abilities. 6. Recreational activities and lead up activities(skill based) 7. Videos on Smart Board and P.P.
Dec. to Jan.	20+17	<u>Chapter-4 : Kho-Kho, Cricket, athletics & yoga:</u> 1. Students will be learning about basic & advanced skill of above mentioned games. 2. Students will use the learnt skills in real match situations. 3. Selection will be done on the basis of their performance and command on the skill for inter house, inter DPS & cluster tournaments. Sports day rehearsal. 4. Physical fitness test
Feb.	21	<u>Chapter-5</u> 1. Revision of the previous classes, match play 2. Annual Examination

Subject : Life Skills

Month	W. D.	TOPIC	VALUES/ACTIVITIES
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April	21	Self Awareness tapping inner strength planning taking crisis in stride	Role Play enacting these values
May+June	5+15	Managing Emotions Behaviour Mgmt. peer pressure conflict resolution relaxation techniques	Enactment crisis turned to opportunity
July	22	Essential skills for Teens money budgeting personal grooming organizing/driving skills	reading aloud positivity be a winner
Aug	22	Power of thoughts/words assess one's thoughts Importance of listening Importance of empathy Positive interaction	Pen down thoughts for a better tomorrow
Sept.	19	Half Yearly Exams	
Oct.	18	Managing Relations a balanced relation critical & creative Thinking age appropriate behavior	Chat Show based on values learnt
Nov.	16	Soulful Reading powerful & effective thinking	CLASS TALK on the topic controlled
Dec.	20	Time Mgmt. setting deadlines multitasking delegate responsibility stop procrastination celebrate achievements	Paper Boats on each activity
Jan	17	Stress Mgmt. Keeping a daily journal Learning to say 'NO' Avoiding Stress turning stress into productivity	Circle of control activity
Feb	21	Annual Exams	

Subject : Swimming

MONTH	No Of W.D.	UNIT /CHAPTER	DESCRIPTION
MARCH	23	SWIMMING CAMP	i) Preparation for swimming competitions.
APRIL to JUNE	21+5+15	CHAPTER -1	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	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

- 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.

ART-EDUCATION

Subject : ART & CRAFT

Month	W.D.	Particulars	Learning Outcome
April	21	Landscape in pencil shading Portrait study (contd.).	
May+June	05+15	Portrait Study	Project on Rajasthani, Mughal and Deccan Painting Project on Art of Rabindra Nath Tagore
July	22	Acrylic or Oil Painting on canvas (contd) composition in water colour	
August	22	Acrylic or oil painting on canvas Composition in water colour	
September	19	Glass painting (contd.) Half Yearly Examination	
October	18	– Glass painting – Madhubani Painting (contd.)	
November	16	– Madhubani Painting – Composition in water colour	
December	20	Study of Design – 1. Natural 2. Geometrical 3. Ornamental 4. Abstract	
January	17	– Corrugated or Ivory Paper Craft	
February	21	Corrugated Paper Craft (Contd.)	

Subject : DANCE

Month	W.D.	Particulars	Learning outcome
April	21	Theory: The History of Indian Dance	Prac: A creative dance - Ram bhajan
May+June	05+15	Theory: contd.	Pracc. Contd. - Ram Bhajan
July	22	Theory – Mudra - Sanyukt - Asanyukt	Prac: Previous choreography of Inter DPS
August	22	Theory – Classical Dance Folk Dance	Prac: contd.
September	19	Theory: Anga Bhed – Anga, Pratyang, Upanga	Pract. – Concluding part of Mangala charan
October	18	Theory – Abhinaya & its four aspects	Pract. – Pravah – a creative

			form of Dance
November	16	Theory – contd.	Practical contd. Pravah
December	20	Theory-	Pract. – contd. - Naad
January	17	Theory – Contd.. The relation between Natya, Nritya, Nritya	Pract. – contd. - Naad
February	21	Theory: Tandav – Lasya	Practical: Naad Project: Abhinaya

Subject : INSTRUMENTAL MUSIC (Spanish Guitar)

Month	W.D.	Particulars (Theory & Practical)	Learning Outcome
April	21	Demonstration about staff notation Fingering with all six strings from 1 st to 9 th frets	Discipline
May	05	Scale Practice on C Major and C minor Chords of C Major or C Minor	Continuity
June	15	Notation of C Scale Straming style WITH 4/4 ON C Major & C Minor	Collaboration Working together to achieve as goal
July	22	The Chinese Girls Based on C Scale, with charts Chords of D Major & D Minor	Poetry
August	22	Notation on D Scale Down and Up stroke practice	Regularity
September	19	Revision Half Yearly Examination Project: Demonstration about staff Assignment: Write songs Aaya Hai Naya Sabera and put the scale and chords of full song.	
October	18	Chords of E Major & E Minor ODE TO JOY	Freedom To understand that freedom or joy comes with responsibilities
November	16	Chords of Aaya Hain Naya Sabera (School Song) Kum - Baya. A Tune based on 'C'; accompaniment	Celebration Feeling enjoy to sing school song
December	20	Chords of F Major & F Minor Chords of G Major & G Minor	Life skills value in chords and relation of family
January	17	Happy day a Tune Based on G scale with chords	Celebration
February	21	Revision Annual examination	

Subject : PHOTOGRAPHY

Month	W.D.	Particulars	Learning outcome
April	21	Most important things for photography, SLR Camera details.	Information
May	05	Making of photo album. Different type of	Informatic
June	15	Camera s	knowledge
July	22	Scientist involve with photography science film base, aperture, shutter	Acceptance
August	22	Intensity of light and how to control it for good picture.	Knowing by doing

September	19	Portrait. Emulsion. Aperture and its uses. Practical Photography Examination Half Yearly Examination	Time Management
October	18	Different types of lens in camera. Enlarge a positive.	Unity in diversity
November	16	Competition photographs Combination of aperture and shutter in camera	eligibility
December	20	Low speed, High speed shutter , Film and Paper Developing Practical Photography	Co-ordination
January	17	Colour photography Exposure – using various developer solution.	Knowing by doing
February	21	Revision Annual Examination	Perfection

Subject : TABLA

Month	W.D.	Particulars	Learning Outcome
April	20	शास्त्र :- ताली खाली देकर ताल अभ्यास ताल अभ्यास लेखन वादन ।	शब्द महत्त्व ।
May+June	06+ 15	क्रियात्मक :- बोल अभ्यास ।	धैर्य तथा धैर्य रखकर अभ्यास ।
July	21	शास्त्र :- कठिन लयकारी युक्त कायदा लेखन क्रियात्मक: – अभ्यास ।	लय सामंजस्य
August	23	शास्त्र :- लग्गी लड़ी लेखन । क्रियात्मक: – लग्गी, लड़ी, अभ्यास ।	कार्य संपादन समय अनुसार
September	19	Western Beats writing Practical: Beats Practices	.
October	15	शास्त्र :- भरत मुनी नाट्य शास्त्र लेखन कार्य । क्रियात्मक :- ताल वाद्य कचहरी का अभ्यास ।	बच्चों को शास्त्र के विषय में जानकारी वाध्य बृंद क्या है
November	23	क्रियात्मक: – संगत, एकलवादन का अभ्यास ।	धैर्य संयम के साथ बोल अभ्यास
December	17	शास्त्र :- पेशकार लेखन कार्य (घराना) । क्रियात्मक: – पेशकार वादन अभ्यास ।	कठिन लयकारी युग्म बोल अभ्यास
January	16	शास्त्र :- भात खन्ड़े , पलुसकर जी का जीवन परिचय तथा संगीत में योगदान । क्रियात्मक :- ताल लीपी पहदानी लेखन ।	स्वास्थ्य और हम
February	22	क्रियात्मक :- पाश्चात्य तालो का अभ्यास । एलमनक गीत अभ्यास ।	

Subject : Vocal Music

Month	W.D.	Particulars	Learning Outcome
April	21	Revision, 5 Alankars in Asawari Thaata, Introduction of Raga Aasawari.	Elaborate involving many carefully Arranged part of details.
May+June	05+1 5	Definition of Bada Khayal & Chhota Khayal Raag Aasawari (contd.) Raag Jaunpuri with Bandish with 8 matra 16 matra taan and sargam. Project song of school issues	History of Raagas
July	22	Taal – Dadra, Keharwa, Rupak, Tilwada with dugan . Definition of Kan, Murkee, Khatka Bhajan from Almanac	Maintain Rhythm in proper Way.
August	22	Welcome Song, New one. Raag Aasawari (contd.) Project Showing.	Importance of welcoming our guest "Vasudhab Kutumbkam"

September	19	Revision Half yearly Examination	
October	18	Revision of 5 Alankars in Marwa Thaata, Definition of Nibaddha and Anibaddha Gaan. Introduction of Raga Sohani/Jaunpuri,	Importance of practice in life
November	16	Raag Jaunpuri with bandish 8 & 16 matra taan, Allap and sargam Project : Making a new 5 Alankars in sohini. History of classical music.	Self make Alankars. How to make it.
December	20	Taal Char taal, Ek taal, Jhap taal, Sool taal With Dugum and practice with Hands Bits. Definition and brief history of Dhrupad and Dhamar Gyan	Importance of laya (timing) and taal
January	17	Bhajan from almanac/new one Biography of Pt. Panna Lal Gosh. Revision of Raag Sohani contd. Assignment No. 2	History of classical legends
February	22	Revision ,Annual examination	

Subject : Sculpture

Month	W.D.	Particulars
April	21	Clay modeling (Head Study)
May+June	05+1 5	Clay modeling (Potrait) Project: Head Study / Potrait
July	22	Antique study (Round)
August	22	Antique study (Relief)
September	19	Creative Pottery (Practice on Potter's wheel)
October	18	Miniature sculpture
November	16	Miniature (Relief sculpture) Project: Composition of Mural
December	20	Terracotta Tiles Mural (coiling pattern)
January	17	Decorative Tiles Mural (coiling pattern)
February	21	Relief Terracotta (Realistic based)

Subject : General Knowledge

BOOK—ARIHANT-OBJECTIVE GENERAL KNOWLEDGE

Month	W.D.	Particulars
April+ May	20 + 6	Indian History and Culture 3) Religious movements-Buddhism/Jainism 9) The Bhakti Movement 10) The Mughal empire/The Marathas Indian Economy 1)Nature of the Indian Economy and Planning in India
June	15	Geography 6) India: Important facts 7)India: Physical Features
July	21	General Science 1)Physics: pg 218-223 2) Chemistry: pg 230-234 3)Biology: pg 239-244 Sc & Tech 2) Space and Nuclear Technology: pg 257-258
August	23	General Knowledge 1)Superlatives: pg 274-275 2) Books & Authors pg 277-278

September	10+6+3	6) Sports world: pg 288-289 Revision for half yearly examination Half Yearly Examination General Knowledge 5) Awards , Honours and Prizes 8) Famous Personalities: pg -299
October	18	Sc.& Tech 1)Defence- Page 251-253 3) Bio & Nanotechnology- pg 262-264
November	16	Environment and Ecology: pg 122- 125 Art and Culture in India: pg 58-60
December	20	Indian Polity 4) Emergency Provisions in our constitution General knowledge 7) National and International organizations : pg 293-295
January	17	Geography 11) India: Minerals and Industries and Multipurpose projects
February	21	Revision for Annual Examination through quiz on current affairs related to sports, awards, personalities etc Annual examination

Subject : KUCHI PUDI DANCE

Month	W.D.	Particulars	Integrated Values
April	21	General introduction origin nature, scope to the technique based on the , jatya sastra.	Under stand traditional methods of learning.
May+June	05+1 5	Vandana:- The obeisance, the decription of dance body language physical demonstration.	Under stand traditional methods of learning.
July	22	Ganesha kautvm:- Abhinagam-How to perform on the stage with Jathis.	Guestures of all Indian classical dances
August	22	Bhedas:- Pada, Shira Greeva, Drishti, with Slokhas and viniyogas.	Indian dance Folk meaning and uses.
September	19	Revisision- Assessment-I	Eight forms of Indian classical dances.
October	18	Knowledge of the Sapta tala- Adital, Roopkar nishra, Jampu, Atatal.	Project about German Folk dances.
November	16	Basic concept of Nritya, Nruttha, and Natrg Number of Rasas.	Jezz, Bellroom Kubuki of Japan cha-cha-cha.
December	20	Four, kinds of Abhinaya. Aanghika, Vatchik, Aataraya, Satvika.	Kuchpudi Break dance Bellet, Tiuklug.
January	17	Singnificance of Lord Nataraja- and Introduction of all kinds of dances.	Hip-Hop. Waaking Contemporary.
February	21	Revision – Assessment-II	Halay, Borang.

Subject: Quiz

Month	WD	Contents
April	21	Ancient India, Current Affairs Medieval India
May	08	Stadium of India Famous quotes Famous Speeches
June	15	Books and Authors, Current Affairs Festival of India Martial Art
July	21	Sports (Mainly Olympics and Foot ball)
August	23	Lakes of India, Parliament of different countries Legendary bonds and songs, current affairs
September	19	Revision
October	18	Current affairs, Quiz on Northeast, Temples of India
November	16	Economic Quiz, Superlative of India
December	20	Historical pictures and some trivia related to them
January	17	Politics and parties, Inventions and inventors
February	21	Revision

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 Avoider & 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 	
