

**ENGLISH
SESSION-2016-17
CLASS-X**

Month

April

Topic

Literature Reader

(a) Two Gentlemen of Verona (prose)

(b) The Frog and the Nightingale (poem)

Work Book

(a) Non - finites , connectors

Objective

Enable students to realise that there is no shame in the work one does provided it is done with honesty and sincerity

Sensitise students about arrogant people who fail to understand their limitation and are determined to show off

Activity

An illustrative biographical sketch of your green grocer

There must be people around you who are like the nightingale and the frog . Write about them and their characteristics

Month

May

Topic

Literature Reader

(a) The Dear Departed (drama)

Main Course Book

(a) Health and Medicine

Work Book

(a) Determiners

Objective

Enable students to realise that old people need love , attention and care

To sensitise student to the need to remain fit

Activity

Make ' Thank You ' card for your grand parents . Write a beautiful message on it

Project on the various medical practices around the world (Homeopathy , Naturopathy , Ayurvedic etc).

Month

July

Literature Reader

(a) The Letter (Prose)

(b) Mirror (Poem)

Main Course Book

(a) Education

Work Book

(a) Tenses

(b) Subject - Verb agreement

Objective

To understand the need of old and lonely people.

Know that peace of mind can be achieved if one can accept reality.

To know that education is absolutely necessary for the development of the country .

Activity

Visit an Old Age Home and interview any two old people. Convince them that they are loved and wanted by us.

Imagine you are the Mirror . Write a speech that you would like to deliver to the people who come to see their reflection in you.

Just a minute.

Month

August

Topic**Literature Reader**

(a) Mrs Packletide's Tiger (Prose)

(b) Not Marble Nor the Gilded Monuments (Sonnet)

Main Course Book

(a) Science

Work Book

(a) Relatives , Conditionals

Objective

To help students to be aware of people who show off their false achievements to satisfy their vanity

Know the power of poetry.

Develop scientific approach in students.

Activity

Organise a quiz in the class about tigers (Tiger Reserve , Tiger Sanctuary , Wild Life Parks , habitat , Eating habits etc).

Collect pictures of old forts and monuments in India and paste them in your scrap book .

Debate - ' The Internet has transformed our way of living '

Month

September

Revision & First Term Examination

Month**October****Topic****Literature Reader**

- (a) A Shady Plot
- (b) Julius Caesar (Play)

Main Course Book

- (a) Environment

Work Book

- (a) Comparison, Nominalization

Objective

To make students realise that ghost stories are not always scary and gruesome .
They can be humourous as well.

To identify a true friend .

Sensitise students to the fact that abuse of ecosystem can prove disastorous.

Activity

Surf the Internet and collect information about a few famous haunted places in the world

Role play (Drama - Julius Caesar)

Poster - Ban plastic / Save Water

Month**November****Topic****Literature Reader**

- (a) Patol Babu , Film star (Prose)
- (b) The Rime of the Ancient Mariner

Main Course Book

- (a) Travel and Tourism

Work Book

- (a) Avoiding repetition , modals

Objective

Students should aim to do their best when an opportunity is given to them.

Make students realise that the best way to get close to God is by loving his beautiful creatures.

Sensitise students to the advantages of travelling . Also to the need to treat tourists as our honoured guests.

Activity

Sin and regeneration is the theme of many stories which we hear from our parents and Grand Parents . Create your own story based on the same theme.

PPT on 'Atithi Devo Bhava'.

Month**December****Topic****Literature Reader**

- (a) Ozymandias (Poem)

(b) Virtually True (Prose)

Main Course Book

(a) National Integration

Work Book

(a) Active and Passive voice

(b) Reported speech

Objective

Make students realise that people are not remembered for their greatness and wealth but for their good deeds.

Develop love for scientific advancement and adventure.

Develop an urge for National unity and progress.

Activity

Your friend recently went to Jaipur and saw some parts of the old forts and palaces were in ruins. Create an imaginary dialogue between you and your friend.

Comparison between the culture , food, traditions and customs of any five Indian states.

Month

January

Topic

Literature Reader

(a) Snake (Poem)

Work Book

Prepositions

Objective

Make students sensitive to the environment and creatures around them

Activity

Compose a Calligram on a subject of your choice

Month

February

Revision and Tests

Writing Skills to be covered in both the terms

Notice ,Message ,Diary Entry ,Bio graphical Sketch ,Data Interpretation ,Dialogue

Writing ,Description (Objects & events)

Formal/Informal letter, e-mail.

Article , Speech , Debate , News Paper /School Magazine report , Story

Long Reading text (Novel)

The Story of My Life by Helen Keller

Objective - To develop interest in reading, enhance vocabulary and make them more wise, witty and prudent.

कक्षा पाठ्यक्रम विभाजन (भाव प्रधान)

महीना

अप्रैल – मई

पाठ का नाम

स्पर्ष / संचयन

बड़े भाई साहब, कबीरदास, डायरी का एक पन्ना, हरिहर काका (संचयन) मीराबाई

व्याकरण

अपठित काव्यांश, षब्द पद, पदबंध, पदपरिचय, मुहावरे लोकोक्तियाँ

उद्देश्य

बाल मनोविज्ञान का सहज वर्णन एवं वर्तमान शिक्षा-प्रणाली का विप्लेशन। निर्गुण भक्ति भावना का परिचय। राष्ट्रीय एवं स्वाधीनता संग्राम का पुनरावलोकन करना। मीराबाई की श्री कृष्ण के प्रति भक्ति आस्था एवं श्रद्धा भाव प्रकट करना। बोधात्मक क्षमता का विकास।

रचनात्मक गतिविधि

भाषण एवं वाद-विवाद जैसी भावनाओं का ज्ञान परीक्षण। मीराबाई के जीवन पर आधारित परियोजना कार्य। 'डायरी के पन्ने' से हमें क्या पता चलता है? स्वाधीनता विशय पर काव्य संकलन बनाएँ। प्रेमचन्द्र एवं उनसे संबंधित कोलॉज कार्य।

महीना

जुलाई

स्पर्ष / संचयन

तंतारा – वामीरो

कथा, तोप

व्याकरण

वाक्य विचार

अपठित बोध

सूचना

उद्देश्य

लोक-कथाओं का ज्ञान देते हुए प्रेम के महत्त्व को बताना भारत के राष्ट्रीय प्रतीकों का ज्ञान। सम्प्रेषण क्षमता में वाक्यों का महत्त्व।

रचनात्मक गतिविधि

तांतरा-वामीरों के जीवन से हमें क्या प्रेरणा मिलती है। भाषण एवं वाद-विवाद। राष्ट्रीय स्वाधीनता संग्राम से जुड़ी अन्य कविताओं का संग्रह।

महीना

अगस्त

स्पर्ष / संचयन

तीसरी कसम के षिल्पकार षैलेंद्र पर्वत प्रदेश में पावस

व्याकरण

संवाद, समास, अनुच्छेद, पत्र

उद्देश्य

तीसरी कसम फिल्म की पटकथा का वर्णन। प्रकृति सौंदर्य की झलक। संधि का ज्ञान।

रचनात्मक गतिविधि

भारतीय सिनेमा जगत से जुड़ी तकनीको एवं कठिनाइयों पर जानकारी एवं कोलॉज निर्माण।

महीना

सितंबर

स्पर्ष / संचयन

गतिविधियां.....भाषण दोहा वाचन

अर्ध वार्षिक परीक्षा का पाठ्यक्रम

गद्य-1,2,3,4

पद्य-1,2,3,4

संचयन-1

व्याकरण

अपठित काव्यांश, षब्द पद, पदबंध, पदपरिचय, मुहावरे लोकोक्तियाँ

वाक्य विचार, अनुच्छेद समास, अपठित बोध, पत्र-लेखन, गद्यांश

महीना

अक्टूबर

स्पर्ष / संचयन

गिरगिट, मधुर

मधुर मेरे दीपक

जल

व्याकरण

सन्धि

उद्देश्य

गिरगिट की प्रतिक्रिया का स्पष्टीकरण करना।

दीपक के माध्यम से अपनी भावनाओं को ईश्वर के चरणों में समर्पित करना।

रचनात्मक गतिविधि

विद्यार्थियों के मध्य वाद-विवाद प्रतियोगिता एवं परिचर्चा द्वारा विचार, अभिव्यक्ति भक्ति कविताओं पर परियोजना एवं काव्य-गोष्ठी का आयोजन।

महीना

नवम्बर

स्पर्ष / संचयन

अब कहाँ दूसरों के दुख में दुखी होने वाले, मनुष्यता, सपनों के से दिन

व्याकरण

कार्यालयी पत्र

उद्देश्य

दूसरों के सुख-दुख की अनुभूति करना।

रचनात्मक गतिविधि

पत्र लेखन कला को विकसित करना

परोपकार मानवता, पशु-प्रेम संबंधी कथाओं का संकलन लिखना पत्र के प्रारूप का अभ्यास।

महीना

दिसंबर

स्पर्ष / संचयन

पतझर की टूटी

पत्तियाँ, कर चले हम फिदा

व्याकरण

अपठित बोध

उद्देश्य

उपभोक्ता की संस्कृति को प्रतिपादित ।

रचनात्मक गतिविधि

विद्यार्थियों को देश भक्ति एवं अमर षहीदों का मधुर स्मरण करवाना ।

वाद-विवाद प्रतियोगिता

देशभक्ति की कविताओं का सचित्र संकलन एवं काव्य-प्रतियोगिता का आयोजित ।

महीना

जनवरी

स्पर्ष / संचयन

कारतूस, टोपी

षुक्ला

व्याकरण

अपठित काव्य बोध

उद्देश्य

देशभक्ति एवं सच्चे जाबाज सिपाहियों के व्यक्तित्व का वर्णन ।

बाल मनोविज्ञान का चित्रण करना ।

रचनात्मक गतिविधि

देशभक्ति के ऊपर अन्य नाटक लिखने का कार्य एवं परिचर्चा का आयोजन । विभिन्न धर्मों पर आधारित कोलॉज निर्माण

महीना

फरवरी

स्पर्ष / संचयन

मूल्यपरक प्रश्नों का अभ्यास

व्याकरण

वाक्य षोधन व्याकरण पुनरावृत्ति

उद्देश्य

सम्पूर्ण पाठ्यक्रम कीवार्षिक परीक्षा के लिए लिखित और मौखिक पुनरावृत्ति ।

महीना

मार्च

वार्षिक परीक्षा

**Syllabus 2016-17 CLASS : X
MATHEMATICS**

1 SEMESTER

MONTH

APRIL/MAY

CHAPTERS

Pairs of linear equations

Graphical Solutions

Algebraic Solutions

Word Problems

Polynomials

Relation between zero
and coefficients of a
polynomial

LEARNING OBJECTIVE

To understand the relation between graphical and algebraic solutions.

To coordinate and solve word problems.

To find the zeroes, their sum product and relation with coefficients.

ACTIVITIES

Do a survey and find out rate/kg of potatoes and onions on a particular day. Now make a system of two linear equations based on it.

Represent graphically and comment on it.

Group Activity:

Prepare a ppt based on all the subtopics of this chapter.

MONTH

JULY

CHAPTERS

Real numbers

Euclid's division lemma

Fundamental theorem of arithmetic

Introduction to trigonometry,
trigonometric ratios, Complementary angles, Identities

LEARNING OBJECTIVE

To study Euclid's division lemma Given positive integers a and b, there exists unique integers q,r, such that $a=bq+r$, $0 \leq r < b$.

To find HCF of a and b by Euclid's division algorithm

To find the ratios $\sin \Phi$, $\cos \Phi$, $\tan \Phi$ from a right triangle Using basic identities to prove other identities.

ACTIVITIES

A flashcard to be prepared by each student containing one question (preferably based on real life) then redistributed in the class and to be solved by the other student.

Life Skills: Inter personal relations.

Using Trigonometric Ratios find out the length of the stairs of your house. (Report with sufficient proofs to be provided)

MONTH

AUGUST

CHAPTERS

Triangles

Basic Proportionality Theorem and application.

Similarity, areas of similar triangles.

Pythagoras Theorem and application.

Statistics

mean, median, mode, of grouped data, problems based on missing frequency of grouped data.

Ogives (more than and less than type)

LEARNING OBJECTIVE

To introduce BPT Necessary conditions of similarity, Relation between area and sides of similar triangles.

To prove Pythagoras Theorem.

To find mean (direct, assumed mean, step deviation method).

To find mode, median of group distribution.

To draw ogive and find median from the given ogive.

ACTIVITIES

Theorem assignment

Make a cover page using geometrical patterns based on 'similar triangles'. Also mention conditions of similarity in each case.

Life Skills: Creative Thinking.

Do a survey of 30 families and record their heights, weights and ages of each family member. Now prepare a group distribution table based on this data. Calculate mean, median and mode. Draw both the ogives. (more than, less than types)

* Table can be based on BMI, s or Age Groups.

MONTH

SEPTEMBER

SA 1 EXAMINATION

MONTH

OCTOBER

CHAPTER

Circles

Tangent to a circle
Area related to circles
Perimeter, area, area of a sector, AREA segment
combination figures

LEARNING OBJECTIVES

To differentiate tangents and secant Tangents at a point on the circle.
Tangents from an external point to a circle.
combination figures with area of sector, area of segment when central angle is 90, 60, 120 or any other.

ACTIVITY

Integrated Project for the Second Term.

Group Activity :

Prepare a jigsaw puzzle using cardboard and coloured papers and then find the area of a particular coloured portion.

MONTH

NOVEMBER

CHAPTE

Arithmetic Progressions

n^{th} term and sum of n terms of an AP.

Quadratic Equation

Solutions of quadratic

Equations

Nature of roots

Surface areas and volumes

Combination solids

Shape conversions

Frustum

LEARNING OBJECTIVES

To understand first term a , common difference d

$$a_n = a + (n - 1)d$$

$$S_n = \frac{n}{2} [2a + (n - 1)d] = \frac{n}{2} [a + a_n]$$

$$a_n = S_n - S_{n-1}$$

Solutions by factorization using identities, middle term.

Splitting, discriminant, method completing the square.

Word Problems.

To find the surface areas and volumes of combination solids (cubes, cuboids, cones, cylinders, spheres) and frustum.

ACTIVITY

Find the volume of the staircase of your house using AP.

Write a story based question based on animal life/nature and then solve it using quadratic equations.

Solution should teach us good values.

Take samples of 4 glasses of different shapes (cylinder, cone, hemisphere, frustum) and find out the volume of water they hold. Also find out how many glasses of water should be taken per day.

MONTH

DECEMBER

CHAPTER

Some applications of Trigonometry

Heights and Distances Applications

Geometrical Constructions

Tangents and Similar

Triangles

LEARNING OBJECTIVES

To understand angles of elevation and depression.

To calculate heights and distances by using trigonometric Ratios.

To construct tangents to a circle and similar triangles when ratio of corresponding sides are given.

ACTIVITY

Find the height of a tree/pole using the length of its shadow and trigonometric ratios.

Life Skills: Creative Thinking

MONTH

JANUARY/

FEBRUARY

CHAPTER

Coordinate Geometry

Distance Formula

Section Formula

Area of Triangle

Probability

Introduction Theoretical Approach

LEARNING OBJECTIVES

To study distance formula, section formula, mid point formula, area of a triangle when vertices are known.

Probability of an event = $\frac{\text{Number of trials in which the event occurred}}{\text{Total number of trials}}$.

ACTIVITY

*Using geo-board find coordinates of any three points A, B, C and also D, mid point of BC. Now find G, such that $AG:GD=2:1$. Find $\angle ABD$ and $\angle ACD$.

*Find out the crime based news headlines and total number of headlines on a particular day and hence find approximate probability of crime per day in Delhi.

Life Skills: Empathy.

MONTH

MARCH

SA2 EXAMINATION

SUBJECT : SOCIAL SCIENCE

CLASS : X

SYLLABUS : 2016-17

MONTH	CHAPTER	LEARNING OBJECTIVES	ACTIVITIES/ ASSIGNMENTS
SA I APRIL/ MAY	L6 (History) Work, Life & Leisure L1 (Geography) Resources and Development L1 (Economics) Development	<ul style="list-style-type: none"> To familiarize the learners about the case studies of London and Bombay. To distinguish between the pattern of urbanization in London and Bombay. To understand the inter-dependence of human being and resources and the consequences of resource depletion. To give the holistic concept of development individually or country as a whole. Correlate Quality of life to HDI. 	<p>Activity 1: Group Discussion Topic: " Feasibility of State intervention in personal matters of Citizens".</p> <p>Activity 2: Role Play a)Role play on a resource, exhibiting its importance and need for Conservation.</p> <p>Activity 3: Discussion on How can non economic indicators like health and education contribute towards development of a country?</p> <p>Activity4: Calculate the BMI of three adult persons of different economic background</p>
JULY	L2 (Geography) Forests and Wild Life Resources L1 (Pol. Science) Power Sharing L2 (Economics) The role of the Service Sector in India.	<ul style="list-style-type: none"> To build an awareness to protect the Flora & Fauna of the country and understand their importance. To enable the learner to understand how power is shared in democracies. To understand about the vertical division of power among the different levels of government. To appreciate how the Indian Service Sector is a service provider to the world. 	<p>Activity 1: Cartoon Making Competition To draw cartoons highlighting the role of human beings in depleting vegetation and wildlife.</p> <p>Activity 2: Preparation of Scrap book/ Classroom Bulletin Board Topic: To understand that the absence of power sharing leads to conflict.</p> <p>Activity 3: Group Discussion Topic: Creating Employment opportunities</p>

	L2 (Pol. Science) Federalism	<ul style="list-style-type: none"> To understand the objectives of decentralization. To analyze federal provisions and institutions. 	Activity 4: Group Presentation. Watch out one national and one regional news bulletin daily for one week and make a list of news items related to government policies.
AUGUST	L3 (Geography) Water Resources L3 (Pol. Science) Democracy and Diversity. L7 (History) Print Culture and the Modern World L4 (Pol. Science) Gender, Caste and Religion.	<ul style="list-style-type: none"> To understand the ratio between demand and supply of water To appreciate water conservation strategies adopted by local people to solve water crisis in their area. To familiarize the concept of social differences and their causes. Learn how democracy accommodates social diversities. To understand how printing made possible the spread of information and ideas, debates and discussions. To develop sensitivity to the social and religious differences that exist in countries. Develop respect for the rights of all social divisions that exist in the Society. 	Activity 1: Sign board to keep nearby water bodies clean and unpolluted. Activity 2: Conducting Interview To Know the reaction of the people on the social issues based on discrimination. Activity 3: Debate Topic: "Print Media or Electronic Media". Activity 4: Role play on struggle of Malala
SEPTEMBER	L4 (Geography) Agriculture	<ul style="list-style-type: none"> To understand that agricultural production unlike Industry can not be regulated as it is dependent on physical conditions. <p>SA I Exams</p>	Activity 1: Survey Conduct a Survey in an adjoining area and write a report. (To understand their problems and try to research reasons for the same).
SA II OCTOBER	L2 (History) National Movement of Indo China	<ul style="list-style-type: none"> Analyze the impact of French Colonialism on the Vietnamese. Focuses on the phases of struggle against the French. 	Activity1: Case Study Showing the emergence of Vietnamese women as a strong force in Vietnamese society.

	L5 (Geography) Minerals and Energy Resources	<ul style="list-style-type: none"> To highlight the important minerals found in India and also their distribution. Know about the methods of Conservation 	Activity 2: Survey Topic: Consumption of Electricity a)To know about the rate of consumption of electricity in a locality. b)Agency providing electricity c)Rate at which the electricity is supplied
NOVEMBER	<p>L5 (Geography) Minerals and Energy Resources</p> <p>L5 (Pol. Science) Popular Struggles and Movements</p> <p>L6 (Geography) Manufacturing Industries</p> <p>L3 (Economics) Money and Credit</p>	<p>Continued</p> <ul style="list-style-type: none"> To understand and discuss how struggle around conflicting demands and pressures shape democracy. To familiarize about the major industries, their location, their contribution to the country. Appreciate the historical origins of money. Identify the modern forms of Money. Evaluate the different sources of Credit. 	<p>Continued</p> <p>Activity 1: Report Making On the basis of news in the newspaper or TV Channels, identify public interest groups working in India.</p> <p>Activity 2: Slogan Writing Topic: Maintaining a harmonious relationship with the environment.</p> <p>Activity 3: Field Survey Topic: Credit- sources, terms and uses.</p>
DECEMBER	<p>L6 (Pol. Science) Political Parties</p> <p>L4 (Economics) Globalization and the Indian Economy</p> <p>L7 (Geography) Lifelines of National Economy</p>	<ul style="list-style-type: none"> Understand the importance of Political Parties in a democracy. Understand the national and regional political parties in India Familiarize with the basic concept like globalization, liberalization, privatization, MNC and trade barriers. To understand the various means of transport and communication network and their significance. To understand their role in enhancing trade 	<p>Activity 1: Group Discussion Topic :Anti-corruption agitation gave birth to a popular political party AAP.</p> <p>Activity 2: Newspaper Article Analysis Topic (a) Demerits of globalization (b) Benefits of FDI</p> <p>Activity 3: Power Point Presentation on “Bright future of Tourism- an upcoming industry”.</p>

	L5 (Economics) Consumer Rights	<p>and commerce & also tourism.</p> <ul style="list-style-type: none"> Familiarize with the basic concepts like MRP, COPRA, redressal, certification marks. Identify the rights and duties of a consumer. Identify the marks of certification. 	Activity 4: Develop an advertisement Topic: Consumer consciousness
JANUARY- FEBRUARY	L3 (History) Nationalism in India	<ul style="list-style-type: none"> Understand the characteristics of Indian nationalism through a case study of Civil Disobedience movement. 	Activity 1: Time Line Presentation on Indian National Movement between 1915-1935.
	L7 (Pol. Science) Outcomes of Democracy	<ul style="list-style-type: none"> Inculcate the value of dignity and freedom of individuals in a democracy. 	Activity 2: Skit Topic: The best form of government - "Democratic government".
	L8 (Pol. Science) Challenges to Democracy	<ul style="list-style-type: none"> Understand the challenges facing democracy. 	Activity 3: Group Discussion Topic: Challenges of Modern Democracy.
MARCH		SA II Exams	

Physics

Month	Chapter and its Sub-topics	Learning Objectives	Activities/Experiments
April	Electricity <ul style="list-style-type: none"> Electric current Ohm's Law Factors on which resistance depends 	<ul style="list-style-type: none"> To make the learner understand the dependence of current on voltage To enable the learner to identify the effects of length, area and temperature on resistance. 	Exp: To Study the dependence of potential difference across a resistor on current passing through it and determine its resistance
May	Electricity (Contd.)	<ul style="list-style-type: none"> To enable the 	Exp: To determine

	<ul style="list-style-type: none"> • Grouping of resistors • Heating effect of current and its application 	<p>learner to identify the series/parallel grouping of resistances and hence calculate effective resistance.</p> <ul style="list-style-type: none"> • To make the students aware of the principle behind working of electric iron, bulb, heater etc. 	<p>the equivalent resistance of two resistors when connected in series.</p>
July	<p>Magnetic effects of electric current</p> <ul style="list-style-type: none"> • Magnetic field • Magnetic field patterns • Electromagnetic induction • Domestic electric circuits 	<ul style="list-style-type: none"> • To make the learner understand the properties of a magnet • To enable the learner to understand the electric wiring of a house. 	<p>Exp : To determine the equivalent resistance of two resistors when connected in parallel.</p> <p>Power point presentation Quiz</p>
August	<p>Sources of energy</p> <ul style="list-style-type: none"> • Fossil fuels • Water and wind energy • Solar energy • Energy from the sea 	<ul style="list-style-type: none"> • To make the learner understand the advantages and disadvantages of renewable and non renewable sources of energy 	<p>Seminar on conservation of energy resources.</p>
September	<p>Revision of 1st Term Syllabus SA 1 exams</p>		<p>Worksheets</p>

<p>October</p>	<p>Light – reflection and refraction</p> <ul style="list-style-type: none"> • Image formation by spherical mirrors • Mirror formula and magnification • Refraction through rectangular glass slab 	<ul style="list-style-type: none"> • To enable the learner to understand the characteristics of image formation in mirrors • To make the learner understand the concept of lateral deviation in a glass slab 	<p>Exp: To Trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence</p>
<p>November</p>	<p>Light – reflection and refraction (Contd.)</p> <ul style="list-style-type: none"> • Refraction by spherical lens • Lens formula and magnification • Power of a lens 	<ul style="list-style-type: none"> • To enable the learner to understand the characteristics of image formation in lenses 	<p>Exp: To determine the focal length of</p> <ol style="list-style-type: none"> 1. Concave Mirror 2. Convex lens <p>by obtaining image of a distant objects</p> <p>Exp:To find the image distance for varying object distances in case of convex lens</p>
<p>December</p>	<p>Human eye and the colourful world</p> <ul style="list-style-type: none"> • Structure of human eye • Defects of vision and their correction. 	<ul style="list-style-type: none"> • To make the learner understand the function of various parts of human eye. 	<p>Optic kit showing various phenomenon like reflection, refraction etc.</p>
<p>January</p>	<p>Human eye and the colourful world (Contd.)</p> <ul style="list-style-type: none"> • Dispersion • Atmospheric refraction 	<ul style="list-style-type: none"> • To make the learner understand the principle behind formation of a rainbow • To make the 	<p>Exp: to trace the path of rays of light through a glass prism</p>

		learner aware of the reasons for blue colour of sky, twinkling of stars, red colour of danger signals.	
February	Revision Practise of Sample papers		Worksheets
March	SA 2 exams		

CHEMISTRY CLASS-X

Month	Chapter and its Sub-topics	Learning Objectives	Activities/Experiments
APRIL/MAY	CHEMICAL REACTIONS & EQUATIONS	Students learn to balance equations & to apply them in natural phenomena Like respiration, rusting & photosynthesis	Group activity to be performed Worksheet to improve reasoning ability. Activity based on topic Corrosion & Rancidity. Experiment: To study the different types of reactions.
JULY	ACID\BASES&SALTS	TO characterize various types of compounds present in natural food like fruits and vegetables and to study their properties with suitable expts.	To perform expts. in lab MCQ based on the expts. Experiment: to study the properties of caustic soda and hydrochloric acid.
AUGUST	METALS\NON-METALS	To identify the elements as metals & nonmetals and to study their characteristics. To study the various steps involved in the extraction of these	To compare the properties of metals and non-metals with suitable example. Experiment: To study the reactivity series of metals Reaction of metals with

		elements from natural form.	their corresponding salts.
September	Formative assessment+SA1+Practical skills		
OCTOBER	CARBON & ITS COMPOUNDS	To study about the naturally occurring substances like coal & about fuels which are mainly carbon compounds	To prepare model in diamond and graphite. Experiment: To study the properties of vinegar.
NOVEMBER	CARBON & ITS COMPOUNDS	To study about SOAPS & DETERGENTS	ACTIVITY ON SOAP MAKING WORK SHEET ON NOMENCLATURE. Experiment: To compare the foaming capacity of soap in hard water and soft water.
December	PERIODIC CLASSIFICATION OF ELEMENTS	To study about the arrangement of elements in periodic table & the various laws governing it	SCIENCE QUIZ* *Activities to be performed to improve thinking skills.
JAN/FEB	MODERN PERIODIC TABLE	MODERN PERIODIC LAW	QUESTION BANK *VALUE BASED QUESTIONS HOTS., APPLIED QUESTIONS
MARCH	Formative assessment+SA2+ PRACTICAL SKILLS	To develop logical approach, reasoning power & scientific attitude to select science.	

(BIOLOGY)

Month	Chapters	Learning Objectives	Practicals
April	Life Processes : <ul style="list-style-type: none"> • Introduction • Nutrition- Different modes • Details of Autotrophic and Holozoic mode of nutrition 	i) Highlighting the links between various life processes. ii) Understanding differences in modes of nutrition of different organisms. iii) Awareness of the functioning of digestive system and some common digestive problems.	Prac: Study of stomata structure in leaf peel slide. Activity: Understanding the design of experimental set up to study the factors affecting photosynthesis. (Experimental and Control)
May	<ul style="list-style-type: none"> • Respiration 	i) Acquainting students with working of respiratory system and molecular basics of respiration.	Prac: To show that light is necessary for photosynthesis Activity: Study of pulse rate through radial palpitation
July	<ul style="list-style-type: none"> • Circulation / Transportation • Excretion 	i) Elaborating the significance and working of circulatory and excretory system.	
August	Control and Coordination: <ul style="list-style-type: none"> • Nervous system • Chemical Coordination in Animals (Endocrine glands and hormones) • Coordination in Plants- (Trophic/Nastic Movements, Phytohormones) 	i) Develop understanding regarding <ol style="list-style-type: none"> a) Need of control and coordination between body parts for smooth functioning. b) Role of nervous system and Endocrine system in achieving that control. iii) Understanding the significance of some imp. glands in leading a healthy life.	Prac: To show that CO ₂ is emitted during respiration. Activity: Observe the tropic and nastic movements in plants.
September	Revision and Summative I Exams		
October	Reproduction: <ul style="list-style-type: none"> • Asexual mode • Sexual Reproduction in Plants • Sexual Reproduction in Animals 	i) Develop an understanding of basics of reproduction in plants and animals (specially humans), taking up all issues important for imparting sex education .	Prac: Study Binary fission and Budding (slides) Activity: Identify and study the male and female reproductive parts in flowers of different plants.
November	Heredity and Evolution: <ul style="list-style-type: none"> • Mendel's crosses and Laws of Inheritance • Sex Determination • Evolution – basic concepts 	i) Making students aware about laws of inheritance so they can appreciate the genetics and heredity. ii) Introducing students to basics of evolution and origin of rich biodiversity.	Prac: Study the parts of embryo in different types of dicot seeds.
December	Our Environment: <ul style="list-style-type: none"> • Biodegradable/ Non biodegradable • Ecosystem- components • Environmental 	i) Enhance the understanding and enhancing sensitivity and concern towards environmental issues.	Prac: Study Homology and Analogy in plants/ Animals.

	problems: Pollution, Biomagnification, Ozone depletion		
January	Natural Resources: <ul style="list-style-type: none"> • Renewable/ Non renewable • Management of Resources • Biodiversity: Forest and wildlife • People role in conservation • Fossil Fuels 	i) Encouraging students to be responsible and aware citizens who proactively work for nature conservation in their own interest.	Activity: Group Presentation/ Wall magazine (on Environmental Topics: eg Global warming, Ozone depletion, House Sparrow disappearance..)

मासानुसार-पाठ्यक्रमः
विषय-संस्कृत
कक्षा--X
मास-अप्रैल

प्रकरण

पाठस्य-नाम-1 वाङ्मयम् तपः,

2 आज्ञा गुरुणां हि अविचारणीया

व्याकरण 1 -स्वर-संधि-दीर्घ, गुण, वृद्धिः 2 समास-तत्पुरुष (विभक्तिः, नञ, उपपद)

3 अनुच्छेद लेखनम्, अपठित-अवबोधनम्

उद्देश्य

1 छात्राणां कौशलानाम् विकासः।

2 गुरुणां आज्ञा सदैव आदरणीया भवति इति विषये छात्रान् बोधयेत्।

क्रियाकलाप

1 श्लोकवाचनम्-भाषिक-कार्यम् । पर्यायः, विपर्ययः, कर्ता-क्रिया अन्वितिः, विशेषण-विशेष्य च, अन्वयः ।

2 गुरुणां महत्त्वं विषये पञ्च श्लोकाः लिखत।

मास-मई

प्रकरण

पाठस्य नाम-3 किं किम् उपादेयम्

व्याकरण-1 व्यंजनसंधि-परसवर्ण, छत्वं, तुकागम 2 समास-कर्मधारय, द्विगु,

3 चित्रं दृष्ट्वा वाक्य-रचना 4 पत्र-लेखनम् 5 पठित-अवबोधन-पद्यांश

उद्देश्य

1 किं किम् करणीयं/अकरणीयम्, किं किम् ग्राह्यं /त्याज्यं इत्यस्य ज्ञान प्रदानम् ।

2 छात्राणां बौद्धिक-विकासः संसारे जनैः किं किम् करणीयम्।

क्रियाकलाप

1 श्लोकोच्चारणम् । मूल्यांकनम्-उच्चारणं, गति -लय भावभंगिमा आदयः।

मास-जून
ग्रीष्मावकाश
मास-जुलाई

प्रकरण

पाठस्य नाम-4 नास्ति त्यागसमम् सुखम्

व्याकरण1 -विसर्ग -संधि-विसर्गस्य उत्वं, रत्वम्, 2 प्रत्यय-तव्यत्-अनीयर्

3 अव्यय-अपि, इव, उच्चैः, एव, नूनम्, पुरा, इतस्ततः, अत्र-तत्र, इदानी
यथा-तथा, विना, सहसा, अधुना, वृथा, शनैः

उद्देश्य

सेवा -भावनायाः विकासः।

क्रियाकलाप

1 गद्यांशवाचन-शुद्ध उच्चारण पदच्छेद, आत्मविश्वासः।

2 प्रश्नोत्तरी-प्रतियोगिता।

मास-अगस्त

प्रकरण

पाठस्य नाम-5 अभ्यासवशगं मनः,

व्याकरण1 -प्रत्यय-मतुप्, इन्, ठक्, 2 वाच्य-परिवर्तनम्-(लट-लकारे)3 समय-लेखनम्

उद्देश्य

1 मानव-जीवने गीतायाः महत्वम्।

2 समयस्य-महत्वम्।

क्रियाकलाप

1 श्लोकोच्चारणम्, अन्वयः।

2 श्रीमद्भगवद्गीतायाः विषये (पीपीटी)

मास-सितम्बर

बहुविकल्पात्मक-प्रश्नाः

प्रथमसंकलनात्मक-परीक्षा2014

मास-अक्टूबर

प्रकरण

पाठस्य नाम-6 साधुवृत्तिम् समाचरेत्

व्याकरणे1 -अपठित-अवबोधनम्, 2 पठित अवबोधनम्, -गद्यांश, 3 संधि-यण्, अयादि, पूर्वरूप,

4 समास-द्वंद्व, अव्ययीभाव (अनु, उप, सह निर्, प्रति: यथा)5 संशोधनकार्यम्

उद्देश्य

विद्यार्थिनः हृदये विवेक-शक्तेः जागरणम्।

क्रियाकलाप

पाठात् प्रच्छन्नभाग्यस्य जीवन-मूल्यैः संबंधित दश गुणानां वर्णनं कुरुत।

मास-नवम्बर

प्रकरण

पाठस्य नाम 7रमणीया हि सृष्टिः एषा, नाट्यांशः

8 तिरुक्कुरल-सूक्ति-सौरभम्-पद्यांशः, अन्वयः

व्याकरणे- 1 व्यंजनसन्धिः-अनुनासिक सन्धिः, वर्गीय प्रथमाक्षराणाम् तृतीय वर्णे परिवर्तनम् ।

2 समास-बहुव्रीहि, 3 चित्रं दृष्ट्वा वाक्य रचना, 4 संशोधनकार्यम्

उद्देश्य

1 विद्यार्थिषु प्रकृति-प्रेम भावनायाः वर्धनम्।

2 छात्रेषु उत्कृष्ट जीवन-मूल्यानां वर्धनम्।

3 भाषा-कौशलस्य विकासः।

क्रियाकलाप

1 कक्षायां नाट्यमंचनम्।

2 चित्रकर्मकवेः तिरुवल्लुवरस्य चित्रं निर्माय तस्य जीवनचरित्रस्य विषये लिखत।

3 बहुविकल्पात्मक प्रश्नाः/लघूत्तरात्मक प्रश्नाः।

मास-दिसम्बर

प्रकरण

पाठस्य नाम-9 राष्ट्रं संरक्ष्यमेव हि/ नाट्यांशः

व्याकरणे-1 विसर्गसन्धिः-विसर्गस्य-लोपः, विसर्गस्य सत्वम्, शत्वम् षत्वम्

2 प्रत्ययाः-तद्धित-त्व, तल्, स्त्री-टाप्, डीप्

3 संख्याः-1-100, एकतः-पञ्चपर्यन्तम् वाक्ये-प्रयोगः, 4 अनुच्छेद-लेखनम्

उद्देश्य

1 देश-प्रेम भावनायाः वर्धनम्।, ,

2 मानवेषु आणविक अस्त्राणां प्रयोगः वर्जनम्।

क्रियाकलाप

1 प्राचीन एवं आधुनिककाले पर्युक्तानां अस्त्राणां मानवजीवने प्रभावः अस्य उपरि (पी पी टी)।

2 प्रश्नोत्तरी-प्रतियोगिता

मास-जनवरी

प्रकरण

पाठस्य नाम-10 सुस्वागतम् भो ! अरुणाचले अस्मिन्

11 कालोऽहम्

व्याकरणे-1 अव्ययपदानि-आईटी, कदा, मा, यत्, यत्र-तत्र, सम्प्रति, यदा-कदा, यावत्, श ह्यः, बहिः, कदापि, किमर्थम्

2 कथाक्रमानुसारम् 3 पत्रलेखनम्

उद्देश्य

1 छात्रान् भारतस्य राज्यानां संस्कृतेः विषये ज्ञानम् ।

2 सर्वसाक्षे, विभोः समयस्य विषये ज्ञानम्।

क्रियाकलाप

1 अरुणाचल-प्रदेशस्य ऐतिहासिक-स्थलानां वेश-भूषा,अशन, पर्वणां उपरि

(पीपीटी)

2 समयस्य महत्वं उपरि पञ्च वाक्यान् लिखत ।

मास-फरवरी

प्रकरण

1 विकल्पात्मक प्रश्ना,लघुत्तरात्मक प्रश्नाः।

2 पाठितस्य पाठ्यक्रमस्य पुनः अभ्यासः ।

3 अशुद्धि-संशोधनम्।

मास-मार्च

द्वितीय-संकलनात्मक

परीक्षा-2015

MUSIC

Month	content
APRIL-MAY	<ul style="list-style-type: none">• Practice of Alankar• Prayer• Definition of Saptak , Swar ,laya• Types of instruments• Indian and western notes
JULY-AUGUST	<ul style="list-style-type: none">• Devotional Song• Patriotic Song• Prayer• Taal keherva
SEPTEMBER-OCTOBER	<ul style="list-style-type: none">• Folk Song• Raga Bhupali –Swar Vistar Parichay• Guru Vandana• Taal Dadra
NOVEMBER-DECEMBER	<ul style="list-style-type: none">• Christmas Song• Teen Taal,• Children's day Song• Raga Yaman-Swar Vistar Parichay
JANUARY-FEBRUARY	<ul style="list-style-type: none">• Revision of Alankars• Revision of Prayers• Revision of Raga Bhupali• Revision of Raga Yaman• Revision of Taals

March	Revision
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Class X-Drawing

Month

April And May

Syllabus

Still Life & Landscape

Month

July

Syllabus

Compositions & Posters

Month

August

Syllabus

Human Sketching & Portraits

Month

September

Half Yearly Exams

Month

October

Syllabus

Applied Arts-Making Paper Bags & Folders

Month

November

Syllabus

Calligraphy And Greeting Cards

Month

December

Syllabus

Portraits & Pencil Sketching

Month

January & February

Syllabus

Animals & Birds Study

CLASS-X (COMPUTER)

MONTH

APRIL- MAY

CHAPTER

HTML

LEARNING OBJECTIVES

Student will learn to make web pages using HTML.

ACTIVITY

Activity- Introduction to HTML creating & formatting various web pages on different topics using fonts and lists.

MONTH

JULY

CHAPTER

HTML

LEARNING OBJECTIVES

Student will learn to add images and pictures in web pages and to link one web page to another web page.

ACTIVITY

Lab Activity-Create a web page on quiz. Link this page with another webpage in which answers are given. Create a webpage called photo gallery to add different images with link to enlarge it.

MONTH

AUGUST

CHAPTER

HTML

LEARNING OBJECTIVES

Student will learn to create online HTML forms and tables.

ACTIVITY

Lab Activity-Create a admission form for the school web site. Design a web page to make SA-I date sheet of the school using tables.

MONTH

SEPTEMBER

HALF YEARLY EXAMINATION

MONTH

OCTOBER

CHAPTER

Adobe Photoshop

LEARNING OBJECTIVES

Student will learn to work with images , editing of images setting background and foreground colors of images.

ACTIVITY

Lab activity- Starting Photoshop Components of Photoshop, Crop the picture using toolbox , foreground and background colors, clone and stamp tool etc.

MONTH

NOVEMBER

CHAPTER

Adobe Photoshop

LEARNING OBJECTIVES

Student will learn to add more images in one page and to set different layers.

ACTIVITY

Lab activity- Collect few jpg images of different topics and make a beautiful card using its tool.

MONTH

DECEMBER

CHAPTER

Adobe Photoshop

More practice on Adobe Photoshop

MONTH

JANUARY

REVISION

MONTH

FEBRUARY

ANNUAL EXAMINATION

Physical Education

Objectives:-

- 1 Acquisition of interest in athletics .
- 2.To improve the physical and mental development and correct the health habits .
3. Identify and plan strategies to achieve goals.

Regular Events:-

- 1.Warming up exercise for 10 minutes.
2. Four to five rounds of play field and light exercises of body.
3. To develop the quality of leadership, discipline and sense of belongingness.

April-May- Drill and Marching - Drill and free hand exercise, Mass P.T

July – Team Game – Volleyball

Terminology – 1.Diving, Boosting, Smashing.

August- Basket ball :- Terminology - 1.Lay up shot, 2 Jump shot .

September—Athletics- (Track events)

1. 100m, 2. 200m, 3. 400m.4. 4*100m. relay.

October- Athletics- (Field Event)

1. Long Jump
2. Shot put
3. Discuss throw

November— Mind game – Chess , Carrom

December – Indoor games – Table Tennis:-Different type of services

Badminton:

January-February – Hand ball , Throw ball

Terminology;- Hand ball – Circle runner, goal, jump throw, penalty shot.

Terminology:- Throwball- Throw in same side, change in direction.