

SUBJECT : SOCIAL SCIENCE

CLASS : IX

MONTH

APRIL/MAY

CHAPTER

L1(Geography)

India- Size and
Location.

L1 (History)

The French Revolution

L1 (Pol. Science)

Democracy in the Contemporary world.

LEARNING OBJECTIVES

- To understand the major land form, features and the underlying geological structure: their association with various rocks & minerals as well as nature of soil types.
- Familiarize students with the names of people involved, the different types of ideas that inspired the revolution.
- Developing sophisticated defense of democracy against common prejudices.
- Compare democracy with non- democratic governments.

ACTIVITIES

Activity 1: Comparing the duration of day at two different places in India.

Activity 2: Debate

Topic: "The French Revolution laid the foundation of Democracy".

Activity 3: Group Discussion & Presentation:

Topic: 'The US war on Iraq was illegal'

MONTH

JULY

CHAPTER

L1(Economics)

The Story of village Palampur.

L2 (Pol. Science)

What is democracy?

Why democracy?

L2 (Geography)

Physical features of India.

LEARNING OBJECTIVES

- Appreciate the importance of mechanized means of farming in creating the surplus produce.
- Understand the disparity in the existing distribution of land.
- Understand how different historical processes & forces have promoted democracy.
- Understand the location of various physiographic divisions and their characteristic features.

ACTIVITIES

Activity 1: Project Work

Draw a land distribution table with reference to school clearly indicating -

-Total School area

-Administrative Block

-Academic wing etc.

Activity 2: Preparing an album, collage/ bulletin board or a wall paper on

What makes a government democratic & non democratic.

Activity 3: Power Point Presentation of physical features.

MONTH

AUGUST

CHAPTER

L3 (Geography)

Drainage.

L3 (Pol. Science)

Constitutional Design.

L2 (Economics)

People as a resource.

LEARNING OBJECTIVES

- Understand the role of rivers in the evolution of human society.
- To appreciate its contribution to the mankind.
- Recognize that the constitution is the living document that undergoes changes.
- Familiarize themselves with the basic concepts like human capital formation, economic activities, types of unemployment.

ACTIVITIES

Activity1: Group Discussion,

Topic: Sharing of river waters.

Activity2: Skit/ Role Play

Topic:“ Racial Discrimination in South Africa”.

Activity3: Debate:

Topic:“Education is the most important factor in human resource development”.

MONTH

SEPTEMBER

CHAPTER

L2 (History)

Socialism in Europe and the Russian Revolution.

LEARNING OBJECTIVES

- Comprehend the impact of Socialism on Russia and on other Countries.
- Relate the revolution to first world war, SA I Exams.

ACTIVITIES

Activity1: Talk Show

Topic: Collectivization of Farms.

SA II

MONTH

OCTOBER

CHAPTER

L4 (Geography)

Climate

L5 (Geography)

Natural Vegetation and Wildlife.

LEARNING OBJECTIVES

- To familiarize the students about factors influencing the climate and explain the climate variation of our country and its impact on the life of the people.
- To understand the relationship with between climate and the growth of natural vegetation, significance of natural vegetation for human existence in the environment & how would life be without the natural vegetation.

ACTIVITIES

Activity1:Picture analysis and finding relationship with human activity.

“To understand the relationship between climate and pattern of livelihood”:

Activity2: Prepare a Scrap Book on migratory birds visiting our country.

MONTH

NOVEMBER

CHAPTER

L6 (History)

Peasants and Farmers.

L6 (Geography)

Population

L4 (Pol. Science)

Electoral Politics.

L3 (Economics)

Poverty as a challenge facing India.

LEARNING OBJECTIVES

- Comprehend different processes through which agrarian transformation may occur.
- Get familiarized with concepts/ideas of large scale farming, small scale production.
- To analyze the uneven nature of population distribution and show concern about the large size of our population.
- Values: Gender sensitivity care and comparison for all.
- Develop an appreciation of citizen's increased participation in electoral politics.
- Understand that poverty is a multidimensional concept within the rural and urban contexts.

ACTIVITIES

Activity1: Prepare a case study on the life of a peasant.

Activity 2: " Nukkar Natak" on the issues related to girl child as a part of the 'community outreach' programme

Example- Nirbhaya

Activity3: Election of Class Monitor

Activity 4: Scrap Book Preparation

Topic: Poverty alleviation plan for a district.

MONTH

DECEMBER

CHAPTER

L7 (History)

History & Sport:

The story of Cricket

L5 (Pol. Science)

Working of the Institutions.

L4 (Economics)

Food Security in India

LEARNING OBJECTIVES

*To Familiarize and suggest how sports also have a history and that it is linked up with the politics of power and domination.

*To get sensitized to the key role of the parliament and its procedures.

*Understand the parliamentary system of executive's accountability to the legislature.

*Understand the circumstances in which the government decided to move towards self sufficiency in food grains.

*Appreciate and critically evaluate the role of government in ensuring food supply.

ACTIVITIES

Activity1: Integrated Project on cricket- Film screening.

Screening of film "Lagan" can be organized for the class.

Activity2: Project Work.

Collect Information on working of the Institutions.

Activity3: Newspaper reading and Diary entry on:

Topic: Different prices in the farm market.

MONTH

JANUARY- FEBRUARY

L5 (History)

Pastoralists in the Modern World

L6 (Pol. Science)

Democratic Rights

LEARNING OBJECTIVES

- Comprehend the nature of pastoral life and the change in the life of pastoralists.
- To appreciate fundamental rights of citizen.
- To understand citizens have the freedom to hold meetings, rallies and demonstrations.

ACTIVITIES

Activity1: Report on an imaginary interview based on forest acts.

Activity2: Bulletin Board Display

“To collect news clippings related to violation of rights and put them for display on the bulletin board”.

MONTH

SA II Exams

Syllabus class IX

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 round of play field an light exercise of body.
3. To develop the quality of leadership, discipline and sense of belongingness.

April-May- Drill and marching - Drill on free hand exercise, mass P.T

July - Team Game - Volleyball

Terminology - 1. Rotation - After every change of service

1. Boosting - boosting means to lift the ball.

August- Basket ball :- Terminology - 1.Violation

2.Travelling

3. Carrying

खो-खो - 1.kho-kho game with proper skills.

खो-खो - 1.How to take lona point.

2.Proper game.

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. Discus throw

November– Mind game - Chess , carrom

December - Indoor games - Table Tennis:-Grips - 1. Orthodox grip 2. Pen hold grip

Badminton :- grips of rackets, stance , foot work.

January-February - Hand ball , Throw ball

Terminology_:- Hand ball - 1.Six meter line 2. Nine meter line

MUSIC

April-may

Theory:

- Four main types of instruments - sushir ,tat , avanadh and ghan (to be shown);
- Meaning of taal;
- Meaning of octave-'saptak'; meaning of aaroha – avaroha;
- Meaning of parts of geet- sthai and antara;
- a few palte (alankaras)
- Words like vocal music, instrumental music & dance to be told to differentiate between the three forms - gayan, vadan, and nritya;
- Names of swaras - shadaj, rishabh, gandhar, madhyam, pancham, dhaivat, nishad;
- 12 swaras - 5 vikrat, 7 shudh ;

July-august

- practice of bols on tabla for a selected few students;
- Practice of palte (alankars);
- National song 'vande mataram'; its correct pronunciation;
- National anthem ,its correct pronunciation;
- The gayatri mantra;
- A prayer and bhajan;
- A patriotic song on the occasion of independence day;
- Taali, khali to be told with demonstration in talas–dadra(6beats), keharwa(8 beats), roopa(7 beats) and teen taal(16 beats)

October-november

- Raga yaman bandish and two taans –one saral and the other sapaat;
- Bandish in raga bhupali – with one saral and sapaat tan;
- A Bhajan 'Raghupati Raghav Rajaram' on the occasion on Gandhi Jayanti ;
- A Shabad on Guru Nanak's birthday.

December-january

- A bhajan/ bandish in raga bhairav aaroha - avaroha , a 'sapaat' taan in raga bhairav;
- Recognize pictures of famous classical vocalists and instrumentalists like sitarist, violinist, veena - player, tabla-player, flautist etc.
- A welcome /new year song;
- A christmas carol.

February-march

- A punjabi song on the occasion of baisakhi;
- Saraswati vandana – a song/vandana in accordance with the auspicious occasion of saraswati puja;
- A holi song;

Class IX-Drawing

Month

April And May

Syllabus

Still Life & Landscape

Month

July

Syllabus

Compositions & Posters

Month

August

Syllabus

Human Sketching & Portraits

Month

September

Syllabus

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

MONTHWISE SYLLABUS FOR CLASS IX - 2015-16

MATHS

MONTH

APRIL

TOPIC

1.Number System

2.Polynomials

LEARNING OBJECTIVE

-To gain the knowledge of various types of numbers e.g. natural numbers, whole numbers, rational numbers & irrational numbers.

-To develop analytical skills.

-To develop data handling and writing skills

-To develop equal distribution skills

-To identify polynomials

-To find coefficient, degree, no. of terms

-To find value of polynomials at a point

-To develop expression and creativity

-To develop the knowledge of formulae

-To develop social uniformity, honesty and behavioural value

ACTIVITY

*Prepare a list of five mathematicians whose work on number theory is well known

* to verify the algebraic identity $(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ using paper cutting and pasting.

MONTH

MAY

TOPIC

3.Co-ordinate Geometry

4.Introduction to Euclid's Geometry

LEARNING OBJECTIVE

- To explore the location of an object with frame of reference
- To practice the skills of locating a point in four quadrants, on the x-axis and y-axis
- To develop creativity, constructive power, writing and drawing from traffic rules
- To recognise point, surface and edges of surface
- To learn about various terms like axioms, postulates, theorems.
- To develop analysing, drawing, writing, division and presentation
- To develop social uniformity

ACTIVITY

* A traffic police sign board is in the shape of triangle, marked with SCHOOL AHEAD displayed on the roadside. If the vertices of triangle are $(0,0)$ $(0,2a)$ (a, a) then what type of triangle is formed plotting these points on graph.

* If a father divides his plot of size 30×25 sq. yards among his 3 children, how will he divide it equally. Also write the size of plot with Area

MONTH

JULY

TOPIC

5.Lines and Angles

LEARNING OBJECTIVE

To recall and review basic geometrical terms, lines, angles line segments, point, plane, collinear and non collinear points, complementary, adjacent, supplementary, vertically opposite and linear pair

- To develop analysing, problem solving, correlation to real life and comprehension

ACTIVITY

1. In a Metro, there are seats and backrest. When we sit, we feel comfortable. Measure the angle between the seat and the backrest. Repeat the same with chairs and sofa at home and observe the relation between the angles.

MONTH

AUGUST

TOPIC

6.Triangles

7.Heron's formula

LEARNING OBJECTIVE

- To learn about congruent triangles

- To understand different criteria for congruence of triangles viz SSS, SAS, RHS, AAS and ASA
- To understand inequalities in a triangle
- To develop analysing, problem solving, use of IT, correlation to real life, creativity, comprehension and equality
- To find the area of triangle when the sides of triangle are given
- To find the area of quadrilateral by dividing them into two triangles
- To develop the skill of finding areas
- To develop presentation, writing, drawing diagrams and calculations etc. and cultural value among the students

SA I TERM

ACTIVITY

- * Prepare a wrapping paper and design it using congruent triangles.
- * Prepare a rakhee using triangles also find areas of all these triangles.

MONTH

OCTOBER

TOPIC

8.Linear Equations In Two Variables

9.Quadrilateral

LEARNING OBJECTIVE

- Recall of linear equation in one variable
- To identify coefficients and constant of linear equations in two variables
- To develop expression, creativity, data presentation, writing, drawing and sketching
- To recall and review the knowledge of various types of quadrilaterals
- To understand the properties of all types of quadrilaterals with reference to its sides and angles
- To develop problem solving, use of IT, correlation to real life and data handling

ACTIVITY

- *The taxi fares in a city are as follows: Rs. 15 for first ₹.M. and Rs. 8 for every subsequent ₹.M. Taking the total distance covered as X and total fare as Y , write the above as a linear equation
- * Visit a historical place. Count and note the number of quadrilaterals, rectangles, squares, parallelogram and rhombus shaped stones in the building.

MONTH

NOVEMBER

TOPIC

10. Area of Parallelograms and Triangles

11. Statistics

LEARNING OBJECTIVE

- To recall formulae of area of all types of quadrilaterals
- To identify the figures on the same base and between the same parallels
- To understand that area of same base and between the same parallels are equal
- To develop analysing, problem solving and thinking
- To develop drawing, imagination, presentation and creativity
- To recall the meaning of the term statistics and need of correlation of data, survey and statistical analysis
- To develop the skill of representing data graphically as bar graph histogram of uniform width histogram of varying width, frequency polygon
- To learn about measure of central tendency i.e. mean, mode and median for raw data and to apply the knowledge in solving problems
- To develop the skill of analysing, correlation to real life, data handling and expression

ACTIVITY

*A farmer has two pieces of land in a parallelogram shape on the same base. He grows vegetables and flowers in two triangular pieces of land as shown in diagram(a) Check whether the two triangular pieces of land are equal in areas

*Project on CRICKET

To find the volume and surface area of a cricket ball and bat.

To prepare performance analysis of any one cricketer for the last five years..

MONTH

DECEMBER

TOPIC

12. Probability

13. Circle

14. Construction

LEARNING OBJECTIVE

- To understand the commonly used word 'probability' in mathematical sense.
- To be able to explain the key terms like random experiment sample, space, events, outcomes, favourable and unfavourable outcomes
- To calculate probability using formula

- To differentiate between empirical and mathematical probability
- To appreciate that probability of an event lies between 0 and 1
- To develop creativity, data collection and handling

Definition and basic terms related to circle viz. interior, exterior, circular region, radius, diameter, arc, minor arc, major arc, segment, minor segment, major segment

- To apply knowledge gained on the topic circles to solve question
- To develop the skill of problem solving and use of IT
- To acquire the knowledge of basic requisites to construct a triangle
- To develop the skill of constructing a triangle with given condition
- To develop care towards poor and save lives

ACTIVITY

*To evaluate the probability of number of students who took part on the occasion of Independence Day Celebration in the school.

*'Angle in the same segment of a circle are equal '

Using the above result make a geometrical design with the help of needle and thread.

*Lions Club of our city wants to make a tent of triangular shape of sides 11m, 15m and 21m to save poor people from cold during winter season.

Construct a triangle taking measurements of sides in proportion

MONTH

JANUARY

TOPIC

15.Surface areas and Volumes

LEARNING OBJECTIVE

- To be able to find out the total surface area of cube, cuboid, cylinder, cone, sphere
- To be able to find out the volume of cube, cuboid, cylinder, cone, sphere
- To develop the skill of problem solving, correlation to real life, creativity and writing

SA 2 TERM

ACTIVITY

* Calculate the volume and surface area of any cardboard box in your house. Also paste a photograph of the box.

* An old age centre of conical structure having radius 21m and lateral height 147m is being set to provide basic needs to or Senior Citizens. Calculate its lateral surface area.

SYLLABUS 2015-2016

CLASS-IX (COMPUTER)

APRIL- MAY

CHAPTER

Adobe Photoshop

LEARNING OBJECTIVES

How to edit image using Photoshop?

ACTIVITY

Lab Activity- Introduction of Photoshop

a.)Components of Photoshop

b.) Toolbox of Photoshop: *crop the picture

* foreground and background colors, *clone and stamp tool etc.

MONTH

JULY

CHAPTER

Adobe Photoshop & HTML

LEARNING OBJECTIVES

How to add more images in one page? How to use layers of Images?

ACTIVITY

Lab Activity- Collect few jpg images of different topics and make a beautiful card using various tools.

MONTH

AUGUST

CHAPTER

Adobe Photoshop

LEARNING OBJECTIVES

To understand the tools of photoshop.

ACTIVITY

Create a volcano diagram using Adobe Photoshop tools.

MONTH

SEPTEMBER

SA1 EXAMINATION

MONTH

OCTOBER

CHAPTER

Macromedia Flash

LEARNING OBJECTIVES

To learn and understand about the flash and its various tools.

ACTIVITY

Lab activity- Open Macromedia Flash

How to create symbol and import graphics?

MONTH

NOVEMBER

CHAPTER

Macromedia Flash

LEARNING OBJECTIVES

To learn about the animations.

ACTIVITY

Lab activity- Group activity on different types of animations.

MONTH

DECEMBER

CHAPTER

Macromedia Flash

LEARNING OBJECTIVES

To learn about Motion Guide Tweening and Frame by Frame Tweening.

ACTIVITY

Lab activity- Group activity on different types of animations.

MONTH

JANUARY

REVISION

MONTH

FEBRUARY

ANNUAL EXAMINATION

ANNUAL SYLLABUS 2015-16

CLASS: IX

SUBJECT: BIOLOGY

Month

April

The fundamental unit of life

learning objectives

To understand that cell is the basic unit of life

Activity

1. Make a 3D model of an animal cell by using different types of pulses.
2. Put dried raisins or apricots in plain water. Then put them into a solution of salt & sugar. Write down your observation.

Month

May

Chapter

Tissues

Plant tissues

learning objectives

1. To acquire the knowledge of scientific terms, facts, definitions and processes.
2. To learn the structure and role of plant tissues.

Activity

Make a collage on the utility of the tissues in multi cellular organisms.

Month

July

Chapter

Animal Tissues

learning objectives

- 1.To learn about function and structure of Animal Tissues.
- 2.To understand how body parts move and how we get energy.

Activity

- 1.Diagrammatically show the difference between the three types of muscle fibers.
- 2.List muscle building foods. Discuss the Role of a gym in building muscles.

Month

August

Chapter

Improvement in Food Resources

learning objectives

- To enable the students to know about various sources of food and components of food.
- To acquire the knowledge of scientific terms, facts, definitions and processes.

Activity

Make a herbarium with cereal, pulses and oil seeds and identify the seasons of their sowing and harvesting.

Month

September

PRACTICAL, REVISION & FIRST TERM EXAM

Month

OCTOBER

Chapter

Why do we fall ill?

Learning objectives

To appreciate the contribution of science towards conquering illness.

To create awareness and concern for a healthy environment.

Activity

Visit 3 colonies and one slum .Find out if residents are receiving clean water or not.

II. List the important vaccines for infants & children, Age wise. Name the diseases, inoculation

Seminar on '**Health and Its Failure**'

Directions: The students will divide themselves into a group of 8-10 for a collective research/study on the given topic. The topic will be divided into the following sub-topics for presentation:

1. Significance of health
2. Personal and community issues for health
3. Difference between healthy and disease-free person

Month

November

Chapter

Diversity In The Living Organisms(I half)

learning objectives

To understand the characteristics of various living organisms.

Activity

Find out the scientific names of any five plants found in your school and five common animals.

Month

December

Chapter

Diversity In The Living Organisms(II Half)

learning objectives

To understand the features of the phylums of animal kingdom

Activity

Find out the number of mammals, birds, reptiles and amphibians in Delhi Zoo. Find out the food habits of the vertebrate categories mentioned above.

Month

January

Chapter

Natural Resources

learning objectives

To enable the students to learn the movement of nutrient elements through the living and non-living components of bio sphere.

Activity

Arrange an excursion to Yamuna river, Find out if the river is polluted. Write the reasons.

Month

February

PRACTICALS & REVISION FOR SUMMATIVE ASSESSMENT-II

SYLLABUS (2015-16)

CLASS: IX (CHEMISTRY)

MONTH

APRIL

CHAPTER

L-1 MATTER IN OUR SURROUNDINGS

LEARNING OBJECTIVES

- To enable the students to get familiarised with states of matter
- to compare the properties of the 3 states of matter at the particle level
- to develop sense of discipline

ACTIVITIES

GROUP ACTIVITY

Role Play: The class to be divided into 3 groups and each group to act like the state of matter assigned. Teacher to guide the students to depict interparticle distance, interparticle force of attraction, kinetic energy possessed by the particles, effect of heat and pressure etc.

ACTIVITY: To study the process of diffusion by

- a) adding ink in water and observe the effect of dilution on the colour of the solution

- b) Burning an incense stick (*Agarbatti*) at one corner of the classroom and observe its effect in the other corner.

MONTH

MAY

CHAPTER

L-1 (Continued)

LEARNING OBJECTIVES

- to enable the students to learn that
 - pressure and temperature determine the state of matter
 - the 3 states of matter are inter convertible
- To make the students apply the knowledge of latent heat to some real life situations.

ACTIVITIES

Activities to be performed in the Chemistry lab :

- To determine the melting point of ice and boiling point of water
- To demonstrate the process of sublimation by taking camphor and Naphthalene balls

MONTH

JULY

CHAPTER

L-2 IS MATTER AROUND US PURE

LEARNING OBJECTIVES

- To acquaint the students with different types of mixtures and their properties.
- To connect classroom learning to life outside the school.
- *To make the students understand that life is a mixture of pleasure and pain.

ACTIVITIES

*Simple activities to be performed in the Chemistry laboratory to clarify the theoretical concepts taught in the class. eg. To prepare true solution of salt and water: colloidal solution of ink and water; suspension of sand and water etc.

*Demonstration based worksheets to be given.

MONTH

AUGUST

CHAPTER

L-2 IS MATTER AROUND US PURE (CONTINUED)

LEARNING OBJECTIVES

*To make the students appreciate that components of a mixture can be separated by using different physical methods of separation.

*Enable the students to differentiate between -a mixture and a pure substance,

-elements and compounds

taking suitable examples from everyday life to reinforce the concept.

ACTIVITIES

*Students to be asked to conduct a survey of their homes and prepare a list of various materials used in daily life. To classify these materials into elements, compounds and mixtures and then to prepare a survey report.

*Students to be asked to bring different types of mixtures from home and suggest the methods to separate butter from cream ,oil from water, dye from ink etc.

MONTH

SEPTEMBER

CHAPTER

PRACTICALS AND M.C.Qs BASED ON PRACTICALS

REVISION FOR SA-1

ACTIVITIES

- *Experiments mentioned in the syllabus to be done in the Chemistry laboratory.
- *WORKSHEETS: Practicals based multiple choice questions to be given.
- *QUIZ Competition

MONTH

OCTOBER

CHAPTER

L-3 ATOMS AND MOLECULES

LEARNING OBJECTIVES

- *To make the students understand the concept of atoms and molecules.
- *To enhance the thinking skills and inquisitiveness in the students.
- *To raise awareness among the students about the way they feel and should react in a particular situation.

ACTIVITIES

- *Samples of various elements and compounds to be shown in the class. Simple experiments related to the topics to be performed.
- *Crossword puzzle to be solved by the students.
- *Project on 'Role of Chemistry in daily life'.

MONTH

NOVEMBER

CHAPTER

L-3 ATOMS AND MOLECULES

(CONTINUED)

L-4 STRUCTURE OF THE ATOM

LEARNING OBJECTIVES

To enable the students

- To understand the formation of a compound.
- To write the chemical formulae if valencies are known.
- To sensitize the students to understand the importance of gaining good qualities and losing the undesired ones.
- To develop scientific temperament among the students.
- To enable the students to appreciate the historical aspect of development of structure of an atom.

ACTIVITIES

***ROLE PLAY:** To assign role of an element to each student in sequence of their roll numbers. Each student to hold 2 placards-1 with the symbol in the right hand and the other with the valency in the left hand. Keeping the symbols in place, students should criss cross their valencies to form formulae of compounds.

***COLLAGE MAKING COMPETITION:** Collect the photographs of scientists who have worked in the field of Chemistry and make a collage. Also mention the contribution made by each of them.

MONTH

DECEMBER

CHAPTER

L-4 STRUCTURE OF THE ATOM

(CONTINUED)

LEARNING OBJECTIVES

*To enable the students to understand the current model/structure of an atom.

*To develop the feeling of togetherness.

ACTIVITIES

GROUP ACTIVITY:Students to be involved in making Thomson's model and Bohr's model of an atom using different materials

Science Congress:Topic:Nuclear Physics

MONTH

JANUARY

CHAPTER

L-4(continued)

L -Natural Resources

LEARNING OBJECTIVES

To enable the students

- To develop decision making and critical thinking ability
- To write electronic configuration of an atom when atomic number is known

To make the students understand that the world is bountiful and full of exciting processes

ACTIVITIES

To build static model of electronic distribution in different orbits of first 20 atoms using wire , beads , cardboard and drawing pins

Group discussion on Green House Effect ,Ozone Layer Depletion, OTBA topics

MONTH

FEBRUARY

CHAPTER

REVISION FOR SA 2

LEARNING OBJECTIVES

To develop confidence among the students

ACTIVITIES

Quiz competitions on all the topics

Sample papers to be discussed

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Month**April –May****Topic****Literature Reader**

- (a) How I taught my Grand Mother to read (Prose)
- (b) The Brook (poem)

Main Course Book :People**Work Book** :Verb Forms**Objective**

Enable students to realise the anguish of Illiterate adults and importance of literacy
To help students to know that no matter how long we live we should try to make our lives fruitful and significant
Write in appropriate style and format

Activity

Make a list of illiterate adults , school drop outs and non school going children of your locality. Write On Each One Teach One.

The poem ' Brook' is full of images. Write ten images . Find these things around you and try to draw them on a chart paper

Description (People / Place / Objects / Events)

Month**July****Topic****Literature Reader**

- (a) A Dog named Duke (Prose)
- (b) The Road Not Taken (Poem)
- (c) The Solitary Reaper (Poem)

Main Course Book

(a) Adventure

Work Book

- (a) Future Time reference
- (b) Reported Speech

Objective

To develop love and kindness toward animals
To make students realise that the career they choose should benefit not only their own self but the entire society
Creating interest and arousing love for poetry
Presenting the final product in an appropriate style free of grammatical error

Activity

- *Cut pictures of different breeds of dogs and paste them in your scrap book
- *Go to www.incarta.com and collect more information about Robert Frost
- *Compose a short poem on ' Nature'

*Narrate a situation where you got into trouble for not listening to your parent's advise and how your parents helped you in rectifying your mistake

Month

August

Topic

Literature Reader

(a) Villa for sale (drama)

(b) Lord Ullin's Daughter (Poem)

Main Course Book

(a) Environment

(b) The Class IX Radio and Video show

Work Book

(a) Modals

Objective

Make students realise that opportunist can never gain in the long run

To sensitise students to empathise with others

To make students aware of the need to plant trees

Activity

*Suppose your father is going to buy a house . He has asked you what you want in your house . List 10 features

*Group discussion on the topic - ' Lord Ullin's Daughter was right in her decision to defy her father'

*Cut pictures of beautiful buildings / gardens / parks / stadium etc . Paste them on cardboard . Write 10 lines on value of cleanliness

Month

September

Revision & First Term Examination

Month

October

Topic

Literature Reader

(a) The Man Who Knew Too Much (Prose)

(b) The Seven Ages (Poem)

Main Course Book

(a) Mystery

Work Book

(a) Determiners

Objective

Sensitise students to be modest and unassuming

To enable students to empathise with others

To sharpen thinking and analytical skill

Activity

Find out the ranks in the Defence Forces of India

'Dumb Charade' based on The Seven Ages

Playing a mystery solving game

Month

November

Topic

Literature Reader

(a) Keeping It From Harold

(b)Oh! I wish I looked after Me Teeth (Poem)

Main Course Book

(a) Children

Work Book

(a) Connectors

Objective

Sensitise students towards Social Responsibilities

Create awareness about dental health

To develop insight into sensitive issues of child labour

Help in developing connectivity of thought process

Activity

Paste pictures of famous Boxers of different weight category in your scrap book

Write 4-5 slogans to develop awareness about dental hygiene

Debate : Education of a girl child is a burden

Month

December

Topic

Literature Reader

(a) Best Seller (Prose)

(b) Song Of The Rain(Poem)

Main Course Book

(a) Sports and Game

Work Book

(a) Preposition

Objective

*To enable students to know what is and should be a best seller

*Sensitise students to the importance of rain for our survival

*To sensitise students to the need to remain fit and develop sports man spirit

Activity

*Dialogue Writing - Two friends meeting after a long time

*Discuss with your friend the origin , falling of rain and its function on the earth . Write a paragraph on water cycle

* Speech - How politics in sports has marred healthy competition in different games

Month**January****Topic****Literature Reader**

(a) The Bishop's Candlesticks (Play)

Work Book

Passive

Objective

* Understanding and appreciation of drama

*Enable students to write reports

Activity

*Stage the play The Bishop's Candlesticks in class

*The park in your locality is in a mess . Write a report on it in 50 -60 words

Month**February**

Revision and Tests

Writing Skills to be covered in both the terms

Notice ,Message ,Diary Entry ,Bio graphical Sketch ,Data Inperpretation ,Dialogue Writing ,Description (Objects & events) ,Formal/Informal letter,E Mail , Article , Speech , Debate , News Paper /School Magazine report , Story

Long Reading text (Novel)

Gulliver's Travels by Jonathan Swift

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

CLASS IX PHYSICS 2015-2016

MONTH

APRIL & MAY

CHAPTER

MOTION

State of Rest and Motion

Uniform Motion and Non uniform motion

Rate of change of Velocity

Graphs

Derivation of equations of Motion

Uniform Circular Motion

LEARNING OBJECTIVE

To enable the learners to understand the physical quantities that are essential to describe motion of an object- uniform or non uniform

ACTIVITY

* To organize 100m,200m and relay race. Then calculate various quantities like time, distance, displacement, speed, velocity etc. of the participants.

* To collect data from newspapers/Internet about the trends in the prices of shares of any company/gold/electricity and plot graphs to draw conclusions

MONTH

JULY

CHAPTER

FORCE AND LAWS OF MOTION

Force and Motion

Newton's laws of Motion

Inertia of a body

Inertia and Mass

Momentum

Force and acceleration

Conservation of Momentum

Action and Reaction forces

LEARNING OBJECTIVE

To introduce concepts of inertia and mass and describe the three laws of motion and their applications.

ACTIVITY

* To establish relationship between weight of a rectangular wooden block lying on horizontal table and the minimum force required to just move it using a spring balance.

* To verify third law of motion using two spring balances.

*To verify first law of motion using carrom board.

MONTH

AUGUST

CHAPTER

GRAVITATION

Universal Law of Gravitation

Force of Gravitation of the Earth

Acceleration due to Gravity

Mass and Weight

Free Fall

LEARNING OBJECTIVE

To enable the learners to understand the concepts related to Gravitation.

ACTIVITY

To explain the concept of 'Free Fall' using a sheet of paper and a stone.

MONTH

SEPTEMBER

REVISION

MONTH

OCTOBER & NOVEMBER

CHAPTER

GRAVITATION

Thrust and Pressure

Archimedes Principle

Buoyancy

Elementary idea of relative density

LEARNING OBJECTIVE

To develop the ability to explain various phenomenon based on buoyancy and thrust & Pressure and thrust & Pressure

ACTIVITY

*To determine the density of solid by using a spring balance and a measuring cylinder.

*To establish the relation between the loss in weight of a solid when fully immersed in

(a) tap water

(b) strongly salty water, with the weight of water displaced by it by taking at least two different solids.

* To observe and compare the pressure exerted by a solid iron cuboid on fine sand/wheat flour while resting on its three different faces and to calculate the pressure exerted in the three different cases.

MONTH

DECEMBER

CHAPTER

WORK AND ENERGY

Work done by a force

Energy

Power

Kinetic and Potential energy

Law of conservation of energy

LEARNING OBJECTIVE

To enable the learners to understand the scientific meaning of work and energy

ACTIVITY

* To collect electricity bills for last five months .Plot graphs between the amount and month . List the causes of maximum and minimum bill with the month and find the steps to reduce the consumption of electricity accordingly.

* To prove the Law of conservation of Energy using a simple pendulum.

MONTH

JANUARY

CHAPTER

SOUND

Nature of sound and its propagation in various media

speed of sound

Range of hearing in humans

Ultrasound

Reflection of sound

Echo

SONAR

Structure of human ear

LEARNING OBJECTIVE

To make the students learn how sound is produced and how it is transmitted through a medium and received by our ear.

ACTIVITY

1. To verify laws of reflection of sound.
2. To determine the velocity of a pulse propagated through a stretched string/slinky
3. To explain the production of sound using a tuning fork and a glass of water.

MONTH

FEBRUARY

REVISION FOR SAI

MUSIC

April-may

Theory:

- Four main types of instruments - sushir ,tat , avanadh and ghan (to be shown);
- Meaning of taal;
- Meaning of octave-'saptak'; meaning of aaroha – avaroha;
- Meaning of parts of geet- sthai and antara;
- a few palte (alankaras)
- Words like vocal music, instrumental music & dance to be told to differentiate between the three forms - gayan, vadan, and nritya;
- Names of swaras - shadaj, rishabh, gandhar, madhyam, pancham, dhaivat, nishad;
- 12 swaras - 5 vikrat, 7 shudh ;

July-august

- practice of bols on tabla for a selected few students;
- Practice of palte (alankars);
- National song 'vande mataram'; its correct pronunciation;
- National anthem ,its correct pronunciation;
- The gayatri mantra;
- A prayer and bhajan;
- A patriotic song on the occasion of independence day;
- Taali, khali to be told with demonstration in talas–dadra(6beats), keharwa(8 beats), roopa(7 beats) and teen taal(16 beats)

October-november

- Raga yaman bandish and two taans –one saral and the other sapaat;
- Bandish in raga bhupali – with one saral and sapaat tan;
- A Bhajan 'Raghupati Raghav Rajaram' on the occasion on Gandhi Jayanti ;
- A Shabad on Guru Nanak's birthday.

December-january

- A bhajan/ bandish in raga bhairav aaroha - avaroha , a 'sapaat' taan in raga bhairav;
- Recognize pictures of famous classical vocalists and instrumentalists like sitarist, violinist, veena - player, tabla-player, flautist etc.
- A welcome /new year song;
- A christmas carol.

February-march

- A punjabi song on the occasion of baisakhi;
- Saraswati vandana – a song/vandana in accordance with the auspicious occasion of saraswati pujan;
- A holi song;

मासानुसार -- पाठयक्रमः

कक्षा -- ix

विषय --संस्कृत

मास अप्रैल

प्रकरण

पाठस्य नाम-1 तत् त्वम् असि

2 अविवेकः परमापदां पदम्

व्याकरणे-- वर्ण,वर्तनी |स्वर संधि -- दीर्घ,गुण ,वृद्धि,यण

शब्दरूपाणि-- अजन्त पुलिङ्ग ,सर्वनाम्- यत्,तत्,(त्रिषु लिंगेषु)

धातुरूपाणि-- भू,पठ हस् नम्, गम,अस्,हन्,कृध(लट,लृट,लंग)

उपपद विभक्ति-द्वितीया-अभितः ,परितः ,उभयतः तृतीया-सह,किम्

पठित-अवबोधनम्(गद्यांशः) कथा-क्रमानुसार

उद्देश्य

१ अहंकारेण विना एव आत्मज्ञानं भवति इति छात्रान् प्रेरितान् करणम्।

२ अविचार्य कार्यम् न कर्तव्यम् अस्य विवेकस्य वर्धनम् ।

३ वर्णानां सयोजनं विभाजनं करणम् ।

४ छात्राणां बौद्धिक विकासः ५ क्रिया निर्माण हेतु शक्ति- गहनम्

क्रियाकलाप

१ पितुः पुत्रेण सह कीदृशः सम्बन्धः भवेत् अस्मिन् विषये कक्षायाम् वार्ताः।

२ विवेक-संबन्धिनःपञ्च सूक्तयः लिखत।

३ पञ्जिकायाम् वर्णानां उच्चारण-स्थानस्य चित्रं निर्माय तेषां नामानि लिखत।

मास मई

प्रकरण

पाठस्य नाम- 3 पाथेयम्

व्यंजनसंधि--म् स्थानेअनुस्वार, णत्वविधानम्,वर्गीय प्रथम, अक्षराणाम् तृतीयवर्णं परिवर्तनम्

त् स्थाने च,त् स्थाने ल्, र् पूर्वस्य रेफस्य लोपः,दीर्घ स्वरतवं च

शब्दरूपाणि-- स्त्रीलिङ्गाः अजन्ताः, सर्वनाम्-- किम्,इदं(त्रिषु लिंगेषु)

धातुरूपाणि--नश्,नृत्,आप्,शक्,इष्,प्रच्छ,कृ,जा,भक्ष,चिन्त् ।

उपपद-विभक्ति-चतुर्थी-नमः,स्वाहा,अलम् (सामर्थ्ये),पंचमी-बहि,विना,भी,तरप्,पूर्वम्,

पद्यांश,अन्वय ।

उद्देश्य

१ छात्राणां रुचिः संस्कृत श्लोक -गायन प्रति वर्धनम् ।

२ संधि-व्यंजनसंधि ज्ञात्वा छात्राःभाषायाःउचित उच्चारणं लेखनं च करिष्यन्ति।

क्रियाकलाप

१ श्लोकोच्चारणम्।

२ शिक्षिका छात्रेभ्यः सन्धियुक्तपदानां विच्छेदपदानां दश-दश उदाहरणानि गृहकार्याय प्रदास्यति।

मास जून-ग्रीष्मावकाश मास-जुलाई

प्रकरण

पाठस्य नाम-4 स्वस्थ वृत्तम्,

5 भ्रातृ स्नेहःदुर्लभः

व्याकरणे--चित्रं दृष्ट्वा वाक्यरचना, नपुंसकलिंग अजन्ता,अस्मद्,युष्मद्

(आत्मनेपदिनः-सेव्,लभ् रुच्,मुद्,याच्

उपपद विभक्तिः--षष्ठी-पुरतः,पृष्ठतः तरप्,तमप्,अधः,सप्तमी-कुशलः,निपुणः,प्रवीणः। नाट्यांशः

धातुरूपाणि-

उद्देश्य

१ स्वास्थ्यमेव धनम् अस्ति इति विचारं गृहीत्वा छात्रान् स्वास्थ्य -नियमान् प्रति जागरणम्।

२ राम-भरत प्रसङ्गेन भ्रात्रोःस्नेहदर्शनम्।

क्रियाकलाप

१ स्वास्थ्याय छात्राःकान् नियमान् पालयन्तु चित्र-कगर्दे लिखन्तु।

२ कक्षायां नाट्य-मञ्चनम्।

३ कर्ता-क्रिया मेलनम्।

मास-अगस्त

प्रकरण

पाठस्य नाम- 6 विद्याया भान्ति सदगुणाः,

धातुरूपाणि-उभयपदिनः-नी,हृ(हर),भज्,पच् विसर्ग-संधि--विसर्गस्य उत्त्वं,रुत्त्वं,लोपः

विसर्गस्यस्थाने स् श,ष्,। प्रत्ययाः- तुमुन्,क्त्वा,ल्यप्,भाववबोधनम् ।

उद्देश्य

१ विद्यायाः महत्त्वम् किम् अस्ति इति ज्ञानस्य छात्रान् प्रतिपादनम् ।

२ छात्राणां बौद्धिक विकासः।

३ धातुभिः सह प्रत्ययानाम् प्रयोगः।

क्रियाकलाप

विद्या=संबन्धी पञ्च श्लोकान् स्व पंजीकायाम् लिखत,बहु विकल्पात्मक-प्रश्नाः।

मास-सितम्बर

(बहुविकल्पात्मकाः-प्रश्नाः)

प्रथम-संकलनात्मक परीक्षा-२०१४

मास-अक्टूबर

प्रकरण

पाठस्य नाम-7 तरवे नमोऽस्तु,8 कर्मणा याति संसिद्धिम्

व्याकरणे,शब्दरूपाणि-राजन्,भवत्,आत्मन्

धातुरूपाणि-भू,पठ,हस्,नम्,गम्,अस्,कृध,हन्। (लोट,विधिलिंग लकारेषु)

प्रत्यय-क्त, उपपदविभक्तिः-द्वितीया-समया, निकषा, प्रति, धिक्, विनातृतीया-विना, अलम्, हीनः, प्रयोजनम्
श्लोकांशः, अन्वय, पठितगद्यांशः, चित्रं दृष्ट्वा वाक्य रचना

उद्देश्य

- १ मानव-जीवने वृक्षाणाम् उपयोगिता प्रतिपादनं करणम्।
- २ विद्या-अध्ययनेन सह मानव-जीवने कर्मणः महत्वम्।

क्रियाकलाप

- १ विद्यालयस्य उद्याने वृक्षाणां आरोपणाय शिक्षिका छात्रान् प्रेरितं करिष्यति ।
निम्ब वृक्षस्य पञ्च लाभाः लिखन्तु ।
- २ विद्या-अध्ययनेन सह छात्राः विद्यालये कीदृशं व्यवहारं कुर्युः इति विषये भाषण-प्रतियोगिता ३ व्याकरणसंबंधी प्रश्नोत्तरीप्रतियोगिता

मास-नवम्बर

प्रकरण

पाठस्य नाम-9 विजयताम् स्वदेशः, 10 कोऽहम् वदतु साम्प्रतम् ।

व्याकरणे

प्रत्यय- क्ततवत्, शब्दरूपाणि-विद्वस्, गच्छत् ,

धातुरूपाणि-नश्, नृत्, आप्, शक्, इष, पृच्छ, कृ, ज्ञा, भक्ष, चिन्त् (लोट-विधिलिङ्ग)

उपपद-विभक्तिः-चतुर्थी-अलम्(सामर्थ्य)पञ्चमी-आरम्भ, प्र-मद, परःअनन्तरम्
नाट्यांशः, चित्रं दृष्ट्वा वाक्य रचना।

उद्देश्य

- १ देशप्रेमभावनायाः विकासः संवर्धनम् वा।
- २ प्रहेलिकानां माध्यमेन बुद्धेः विकासः।

क्रियाकलाप

- १ महाराणाप्रतापस्य विषये पञ्च वाक्यान् लिखत।
- २ छात्राः गृहात् दश प्रहेलिकां लिखित्वा आनेष्यन्ति।
- ३ पंजीकायां समाचारपत्रात् चित्रं नीत्वा तस्य विषये पञ्च वाक्यानि लिखत।

मास-दिसम्बर

प्रकरण

पाठस्य-नाम 11 न धर्मवृद्धेषु वयः समीक्ष्यते, 12 कवयामि वयामि यामि,

व्याकरणे-प्रत्यय-शतृ, शानच्, शब्दानां--रूपाणि एक, द्वि, त्रि, चतुर, पञ्चन्

धातुरूपाणि-आत्मनेपदी-सेव्, लभ् रुच्, मुद, याच्(लोट-विधिलिङ्ग)

उपपदविभक्तिः-षष्ठी-निर्धारणे, वामतः, दक्षिणतः, अनादरे, सप्तमी-स्निह्, विश्वस, अनु-रज, भावे।

कथाक्रम-सयोजनम्

उद्देश्य

- १ सर्वत्र ज्ञानं एव श्रेष्ठं भवति इमं प्रति विद्यार्थिनः ध्यानाकर्षणम्।
- २ शिक्षायाः महत्वम्।

क्रियाकलाप

- १ अष्टावक्रैः सदृशं अन्य-विदुषां कथानां संकलन।
- २ पाठस्य कथा- संबंधी प्रश्न-कथा-क्रमानुसार।

मास-जनवरी

प्रकरण

पाठस्य नाम-13 -भारतीयं विज्ञानम्, 14 भारतेनास्ति मे जीवनं जीवनम्
धातुरूपाणि-उभयपदिनः-नी, ह्र(हर्)भज्, पच्
अपठित गद्यांश, चित्रं दृष्ट्वा वाक्य रचना

उद्देश्य

- १ छात्राणां प्राचीन भारतीय विज्ञानं प्रति ध्यानाकर्षणम्।
- २ छात्राणां हृदये देश-प्रेम भावनायाः जागरणम्

क्रियाकलाप

- १ भारतीय विज्ञानः आधुनिक विज्ञानस्य आधारः अस्ति इति विषये ppt निर्माणं कुरु ।
- २ श्लोकोच्चारणम् प्रतियोगिता ।

मास-फ़रवरी

बहुविकल्पात्मकाः प्रश्नाः, शब्दार्थाः, पुनर्भ्यासः।

मास-अप्रैल

द्वितीय संकलनात्मक परीक्षा-2015