



**THE LEXICON SCHOOLS**  
(Wagholi • Hadapsar • Kalyani Nagar)  
**MONTH WISE CURRICULUM - 2024-25**  
Class - X

APRIL 2024

**ENGLISH**

**First Flight**

**Prose:**

1. A Letter to God
2. Nelson Mandela

**Poems:**

1. Dust of Snow
2. Fire and Ice

**Supplementary Reader: Footprints without Feet**

1. A Triumph of Surgery
2. The Thief's story

**Grammar:**

1. Tenses
2. Modals
3. Subject - Verb Concord
4. Reported Speech

(Commands & Requests, Statements, Questions and Determiners)

**Creative Writing:**

1. Formal Letter Writing - (Letter to the Editor, Complaint Letter, Placing Order, Inquiry Letter Word Limit: 100 -120 words)
2. Analytical Paragraph Writing (100-120 Words) on a given Map/ Chart/ Graph/ Cues

**MATHEMATICS**

**Ls 1: REAL NUMBERS:**

Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of  $\sqrt{2}$ ,  $\sqrt{3}$ ,  $\sqrt{5}$ .

**Ls 2: Polynomials:** Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.

**Ls 3: Pair of linear equations in two variables:** Pair of linear equations in two variables and graphical method of their solution, consistency /inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems.

Lab Manual Activity: System of Linear Equations

Art Integrated Activity: Plot lines representing 7 or 8 linear equations on a single graph sheet. Trace them on a OHP sheet and paint it with different colors.

**HINDI**

**स्पर्श :** गद्य - पाठ 1 - बड़े भाईसाहब, पाठ 2 - डायरी का एक पन्ना

**स्पर्श:** पद्य - पाठ 1 साखी (कबीर) पाठ 2 - पद (मीरा)

**संचयन** - पाठ 1 - हरिहर काका

**व्याकरण** - मुहावरे, अनुच्छेद, पदबंध, वाक्य रूपांतरण

**MARATHI**

1) तू बुद्धी दे (केवळ वाचनासाठी)

2) संतवाणी अ. अंकिला मी दास तुझा

3) शाल

**स्थूलवाचन:-** मोठे होत असलेल्या मुलांनी

**व्याकरण:-** शब्दांच्या जाती विकारी (4)

(नाम, सर्वनाम, विशेषण, क्रियापद) समास - द्विगु समास

**उपयोजित लेखन:-** निबंध

**वाचन व आकलन:-** अपठित उतारा, कविता

**SOCIAL SCIENCE**

**History:**

Section-1: Events and Processes

Ls.1- The Rise of Nationalism in Europe

**Art Integration** - To collect examples of pictures, posters or music that are symbols of nationalism used by any 5 countries.

**Democratic Politics:**

Ls. 1- Power sharing

**Experiential learning** - Compare the power sharing model of Sri Lanka and Belgium.

**Geography:**

Ls. 1- Resources & Development

**Activity-Poster making** on 'Save Resources' can be done.

Ls.2- Forest and wildlife

**Economics:**

Ls.1- Development

**Experiential learning** - Find out the BMI of family members.

Also, prepare a tangram for the same.

**CHEMISTRY**

Ls.1: Chemical reactions and equations.  
 Chemical equation and its representation, word equations, chemical equations, and balancing the equations.  
 Types of chemical reactions: Combination, Decomposition, Displacement, Double displacement, Precipitation, Neutralization, Oxidation, and Reduction.  
 Effects of Oxidation in everyday life-Rancidity and corrosion.  
 Lab Manual :  
 Experiment 3(A-D): To observe the action of water on quicklime, the action of heat on ferrous sulphate crystals, the reaction between iron nail and copper sulphate solution, and the reaction between sodium sulphate and barium chloride solutions and classify the reactions on the basis of its type.

**BIOLOGY**

Ls.5: Life processes  
 Life processes-nutrition, autotrophic and heterotrophic, ways of obtaining nutrition by organisms.  
 Respiration in living organisms, transportation in plants and animals, Excretion in plants and animals  
 Lab Manual :  
 Experiment 8: To prepare a temporary mount of a leaf peel to show stomata.  
 Experiment 9: To show experimentally that carbon dioxide is given out during respiration.  
 [Assignment of Portfolio work to the students: Sustainable Management of Natural Resources on any of the sub topics from the chapter-Living in harmony with nature,5 R's, Natural resources, significance of management of natural resources, forest management, water management, water harvesting, coal and petroleum, overview of natural resources]

**FINANCIAL LITERACY**

**MSSP STUDY MATERIAL**

Term I - History  
 Part I: Electronic Commerce  
 Part II: Beware!  
 (3 sessions)  
**Activity:** Write a Brief note on the Comparitive study on ancient trade through silk routes and modern trade on Amazon.

**ART & CRAFT**

Introduction  
 1. What is Art  
 2. Elements of Art  
 Perspective Drawing (Two-point perspective)

**AI**

**Part A -Employability Skills-**  
 Unit-1 Communication Skills-II,  
 Unit 2: Self-management Skills - II  
**Part B- Subject Specific Skills-**  
 Unit 1: Introduction to Artificial Intelligence (AI)  
 Unit 2-Project Cycle  
 Scratch-<https://scratch.mit.edu/> Create an account.  
 Watch the Scratch introduction video  
 Explore the different tabs like Motion, Looks, Sound, Events, Control, Sensing, Operators, Variables and see the tutorial videos.

**MUSIC**

1) School song,  
 2) Maharashtra Anthem

**SIGN LANGUAGE**

Hello & Namaste  
 Teachers will make placards of the sign words to show to the students in the assembly

**HEALTH & WELLNESS**

**Health and Physical Education**

**Sports Education** - What is sports? Different types of sports, rules & regulations.

**Yoga**- Surya Namaskara

**Sports and Free play**- track & fields events

**Theory** - How to conduct test (100m run, 600m run/walk test, sit-ups, push-ups, shuttle run, vertical standing broad jump)

**MORAL VALUES & ASSEMBLIES**

**(10th April) Special Assembly on Awakening Day:** On the occasion of Mr. Pankaj Sharma Sir's birthday, Awakening Day will be celebrated.

**(28th April) Innovative Assembly on the Importance of Maharashtra Day**

**Habit 1-** Be proactive (You are in charge) and related stories.

**Core Value:**

1. Equality
2. Honesty

Festivals/Special day celebration assemblies: Good Friday, Ambedkar Jayanti, Ramzan Eid, Buddha Purnima.

**PHYSICAL EDUCATION**

1. Slow continuous jogging
2. Skipping practice
3. Step up and down
4. Calf and Hip raises

**LIFESKILLS/EMOTIONAL WELLBEING**

- Self-awareness
- Empathy
- Goal Setting
- Managing emotions

Believe in Yourself



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**MONTH WISE CURRICULUM - 2024-25**  
Class - X

JUNE 2024

**ENGLISH**

First Flight

**Prose:**

3. Two Stories about Flying
4. From the Diary of Anne Frank
5. Glimpses of India

**Poems:**

3. A Tiger in the Zoo
  4. How to Tell Wild Animals
- Supplementary Reader: Footprints without Feet
3. The Midnight Visitor
  4. A Question of Trust

**Grammar:**

1. Tenses
  2. Modals
  3. Subject - Verb Concord
  4. Reported Speech
- (Commands & Requests, Statements, Questions and Determiners)

**Creative Writing:**

1. Formal Letter Writing - (Letter to the Editor, Complaint Letter, Placing Order, Inquiry Letter Word Limit: 100 -120 words)
  2. Analytical Paragraph Writing (100-120 Words) on a given Map/ Chart/ Graph/ Cues
- Creative Writing: Footprints without Feet 3. The Midnight Visitor Grammar: 1. Tenses 2. Modals 3. Subject - Verb Concord 4. Reported Speech (Commands & Requests, Statements, Questions and Determiners) Creative Writing: 1. Formal Letter Writing - (Letter to the Editor, Complaint Letter, Placing Order, Inquiry Letter Word Limit: 100 -120 words) 2. Analytical Paragraph Writing (100-120 Words) on a given Map/ Chart/ Graph/ Cues.

**HINDI**

**स्पर्श : गद्य** - पाठ 3 - ततारा वामिरो कथा , पाठ 4 - तीसरी कसम के शिल्पकार

**स्पर्श: पद्य** - पाठ 5 - पर्वत प्रदेश में पावस

**व्याकरण** - अनुच्छेद लेखन , पत्रलेखन (औपचारिक )

**MARATHI**

- 4) उपास
- 5) दोन दिवस (कविता)

**व्याकरण:-**

शब्दांच्या जाती अविकारी (4)  
(क्रियाविशेषण, शब्दयोगी अव्यय, केवलप्रयोगी अव्यय, उभयान्वयी अव्यय)

समास – द्वंद्व समासाचे 3 प्रकार

उपयोजित लेखन:- कथालेखन

**SOCIAL SCIENCE**

**History:** Ch.2. Nationalism in India  
Activity-Draw and compare between the Swaraj and Swadeshi flag.  
**Democratic Politics.:** Ch.2. Federalism  
Activity- 1. Debate on "Hindi: Our national language"  
2. Draw a Go on key features of federalism  
**Geography:**  
Ch.3 Water resources  
Activity-1. Draw a Go on showing the advantages and disadvantages of multipurpose projects, 2. Making a poster on 'Save Water'

**MATHEMATICS**

**Ls 4: Quadratic Equations**

Standard form of a quadratic equation  $ax^2 + bx + c = 0$ , ( $a \neq 0$ ). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula.

Relationship between discriminant and nature of roots.

Situational problems based on quadratic equations related to day-to-day activities to be incorporated.

**Ls 5: Arithmetic Progression**

Motivation for studying Arithmetic Progression  
 Derivation of the  $n^{\text{th}}$  term and sum of the first  $n$  terms of A.P. and their application in solving daily life problems.

**Lab Manual Activity:** Arithmetic Progression-1,2,3

**PHYSICS**

Ls -10 Light (Refraction)

Lab manual:

Experiment 10 B: Determination of the focal length of a Convex lens by obtaining the image of a distant object.

Experiment 10 E: To Trace the path of the rays of light through a glass prism.

**CHEMISTRY**

Ls 2. Acids, Bases and Salts

Acids and their chemical properties, Compare acids and bases, Neutralization reaction between the acids and bases. Concept of pH scale, the importance of pH in everyday life, Strength of acids and bases in terms of furnishing of  $H^+$  and  $OH^-$  ions, general properties, examples and uses of acids, bases, and salts

Lab Manual:

Experiment 1: To find the pH of the following samples by using the pH paper/universal indicator: (a) Dilute hydrochloric acid (b) Dilute NaOH solution (c) Dilute ethanoic acid solution (d) Lemon juice (e) Water (f) Dilute sodium hydrogen carbonate solution.

Experiment 2A: To study the properties of an acid (HCl) by its reaction with: (a) Litmus solution (blue and red) (b) Zinc metal (c) Solid sodium carbonate

Experiment 2B: To study the properties of a base (NaOH) by its reaction with: (a) Litmus solution (red and blue) (b) Zinc metal (c) Solid sodium carbonate

**BIOLOGY**

Ls.6: Control and Coordination

Nervous system in animals, reflex action, Human brain-parts and their functions, tropic movement in plants, introduction of plant hormones, coordination in plants, animal hormones and their role in the body.

**AI**

Part A- Unit 3: Information and Communication Technology Skills II

Part B - Unit 3: Advance Python.

**Scratch-** Students can plan backdrop for the story and lead different sprites in Scratch. Students will gain experience with coding loops and variables.

<https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon>

**FINANCIAL LITERACY**

**MSSP STUDY MATERIAL**

**Term I**

Mathematics

Trading and DEMAT Account (2 sessions)

Political Science

Commodity Future Market (2 sessions)

**Activity:** Prepare a presentation on How the World Wide Commodities Market drives the prices and its impact on Export Import.

**ART & CRAFT**

Still Life

1. Still Life Composition
2. Memory Drawing

**MUSIC**

Daya Kar Dan

**HEALTH & WELLNESS**

**Health and Physical Education**

**Social Health-** Positive Use of Leisure Time

**Yoga-** Kapalbhati Pranayama (steps and benefits)

**Sports and Free play-** football

**Mass Drill and Fitness**

Physical fitness test

100m run, 600m run/walk test, sit-ups, push-ups, shuttle run, vertical standing broad jump

**MORAL VALUES & ASSEMBLIES**

**26th June:** Assembly on Sustainable Development

**Goal - Quality Education:** Aims to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

**Habit 2-** Begin with the end in mind (Have a plan) and related stories

**Core Value**

1. Respect

2. Courage

Festivals/Special day celebration assemblies: Bakri Eid

**SIGN LANGUAGE**

Good Morning & Good afternoon

Teachers will make placards of the sign words to show to the students in the assembly.

**LIFE SKILLS**

- Empathy
- Self-awareness
- Managing emotions
- Coping with stress
- Interpersonal relationship
- Communication Skills

**PHYSICAL EDUCATION**

1. Crunches
2. Squats & Lunges
3. Squat hold

Believe in Yourself



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Class - X

JULY 2024

**ENGLISH**

First Flight

**Prose:**

6. Mijbil the Otter

**Poems:**

5. The Ball Poem

6. Amanda!

**Supplementary Reader: Footprints without Feet**

5. Footprints Without Feet

**Grammar:**

Practice Exercises

Creative Writing: Practice Exercise

**HINDI**

**स्पर्श: गद्य** - पाठ 5- गिरगिट (ONLY FOR READING)

पाठ 6 अब कहाँ दूसरों के दुःख से

**स्पर्श: पद्य** - पाठ 3- दोहे ( बिहारी) (ONLY FOR READING)

**संचयन** - पाठ 2- सपनों के से दिन

**व्याकरण:** - **समास**- तत्पुरुष, अव्ययीभाव, द्वंद्व , द्विगु

**रचनात्मक** - सूचना लेखन , विज्ञापन लेखन

**अपठित अवबोधन:-** अपठित गद्यांश

**MARATHI**

6) चुडीवाला

7) फूट प्रिंट्स

**व्याकरण:-** लिंग, वचन, काळ, समानार्थी –विरुद्धार्थी शब्द , वाक्यांचे प्रकार – आज्ञार्थी, विधानार्थी , उद्गारवाचक , प्रश्नार्थक लेखन- पत्रलेखन

**MATHEMATICS**

**Ls 6: Triangles**

Definitions, examples, counter examples of similar triangles.

1. (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.

2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. 3.

(Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional, and the triangles are similar.

4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal, and the two triangles are similar.

5. (Motivate) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar.

**Lab Manual Activity:** Basic Proportionality Theorem

**Ls 7: Coordinate Geometry**

Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula, Section formula (internal division).

**Lab Manual Activity:** Centroid of a Triangle - Obtaining

**SOCIAL SCIENCE**

History: Ch.3. The Making of the Global World-Unit-1 Activity- Organize role-playing activities or historical reenactments

Ch.4. Age of Industrialization.

Activity- Imagine you are a manufacturer during colonial rule. Design and present an advertisement for your product.

Democratic Politics.: Ch.3. Gender, Religion and Caste

Activity- 1. Draw a poster on: "Stop gender discrimination." 2. Role play/ group discussion on - discrimination in gender, religion, and caste

Geography: Ch.4. Agriculture

Activity- Group Discussion and debate on modern agricultural practices in India. Group presentation on major crops in India.

Economics: Ch.2. Sectors of the Indian economy

Activity- Group Discussion on the Tertiary sector and its advantages.

**LIFE SKILLS/EMOTIONALWELLBEING**

- Critical Thinking
- Decision Making
- Problem Solving
- Communication Skills

the centroid of a triangle by paper folding and verifying the answer by the distance formula .

**Ls 8: Introduction to Trigonometry**

1.Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios whichever are defined at 0° and 90°. Values of the trigonometric ratios of 30°, 45° and 60°. Relationships between the ratios.

2. Proof and applications of the identity  $\sin^2 A + \cos^2 A = 1$ . Only simple identities to be given.

**Lab Manual Activity:** Verification of Trigonometric Identities.

**Experiential Learning:** To prepare a clinometer to measure the angle of elevation and depression.

**PHYSICS**

Ls.11 Human eye and colourful world  
Structure of Human eye, power of accommodation, defects of vision and their correction  
Refraction of light through a prism, atmospheric refraction, scattering of light.

**Lab Manual:**

Experiment 10 D: To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence and measure the angle of incidence, angle of refraction, angle of emergence and interpret the results.

**CHEMISTRY**

Ls. 2 Acids, Bases, and Salts (continued)  
Preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda, and Plaster of Paris.

Ls.3 Metals and Non-Metals

Physical and chemical properties of metals and non-metals

**Lab Manual :**

Experiment 4(A-D): To observe the action Of Zinc, Iron, Copper and Aluminum metals on the aqueous solution of Zinc Sulphate ( $ZnSO_4$ ), Ferrous Sulphate ( $FeSO_4$ ), Copper Sulphate ( $CuSO_4$ ) and Aluminum Sulphate [ $Al_2(SO_4)_3$ ] and arrange these metals in the decreasing order of reactivity.

**BIOLOGY**

Ls.7: How do organisms reproduce?

Reproduction in plants

Experiment 18: To identify the different parts of an embryo of a dicot sea(pea, gram, or kidney bean)

**PHYSICAL EDUCATION**

1. Wall Push ups
2. Bench Push ups
3. Push ups practices
4. Push ups Hold

**FINANCIAL LITERACY**

**MSSP STUDY MATERIAL**

Term I - Economics

Benefits of Insurance

**Activity:** Students to write a report on the Insurance Institute of India and the Exams itconducts

**English**

History of Pension in India (1 session)

New Pension Scheme (1 session)

**Activity:** Students to research and write a para on the first Insurance Company of India and how it worked.



**AI**

**Part B - Unit 4: Data Science**

Unit 5 : Computer Vision

**Scratch-** Students can plan backdrop for the story and lead different sprites in Scratch. Students will gain experience with coding loops and variables.

<https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon>

**ART & CRAFT**

Natural forms

1. Flower Shoot
2. Plants and Trees

**MUSIC**

Heal the world

**HEALTH & WELLNESS**

**Health and Physical Education**

**Physical Education** - National Sports awards in detail

**Yoga-** Sheetkari Pranayama (steps and benefits)

**Sports and Free Play** - Table tennis/ chess

**Sports Education** - What are the types of tournaments and drawings of fixtures?

**MORAL VALUES & ASSEMBLIES**

**Habit 3-** Put first things first (Work First, Then Play) and related stories

**Core Value:**

1. Team Spirit
2. Optimism

Festivals/Special day celebration assemblies: - As per the annual calendar

**SIGN LANGUAGE**

Understand & Remember

Teachers will make placards of the sign words to show to the students in the assembly.





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**MONTH WISE CURRICULUM - 2024-25**

**Class - X**

**AUGUST 2024**

**ENGLISH**

First Flight

Prose:

- 7. Madam Rides the Bus
- 8. The Sermon at Benaras

Poems:

- 7. The Trees
- 8. Fog

Supplementary Reader: Footprints without Feet

- 6. The Making of a Scientist
- 7. The Necklace
- 8. Bholi

Grammar:

Practice Exercises

Creative Writing: Practice Exercise

**HINDI**

**स्पर्श** : गद्य - पाठ 7 पतझर में टूटी पत्तियाँ

**स्पर्श**: पद्य - पाठ 4- मनुष्यता , पाठ. 7 तोप

**संचयन** - पाठ 2- सपनों के से दिन (अवशिष्ट भाग)

**व्याकरण** - द्वंद्व , द्विगु समास , अव्ययीभाव समास

**MARATHI**

8) उर्जाशक्तीचा जागर

9) औक्षण (कविता)

व्याकरण :- अव्ययीभाव समास

**MATHEMATICS**

**Ls 9: Some Applications of Trigonometry**

HEIGHTS AND DISTANCES: (10) Periods:

Angle of elevation, Angle of Depression.

Simple problems on heights and distances.

Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30°, 45°, and 60°.

**Lab Manual Activity:**

Calculating heights and distances using Trigonometric Ratios.

**Ls 10: Circles**

Tangent to a circle at, point of contact.

1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact.

2. (Prove) The lengths of tangents drawn from an external point to a circle are equal.

**Lab Manual Activity:**

Verification of Lengths of Tangents

**CHEMISTRY**

Ls.3: Metals and Non-Metals (continued)

Formation and properties of ionic compounds, occurrence, extraction and refining of metals, corrosion and prevention.

Ls.4 Carbon and its compounds.

Covalent bonding in carbon compounds, allotropes of Carbon, versatile nature of carbon, saturated and unsaturated carbon compounds.

**SOCIAL SCIENCE**

Democratic Politics: Ch.4. Political Parties

Activity- 1. Group presentation on the various Indian national political parties 2. Draw the party symbols of the national political parties of India in the notebook.

Geography: Ch.5. Minerals and Energy Resources

Activity- 1. Poster making to 'Save Minerals & Energy Resources, 2. Group presentation on the types of mineral and energy resources

Economics: Ch.3. Money and Credit-Unit-1,2 &3

Activity- Talk by a bank representative about the bank's working

**PHYSICAL EDUCATION**

1. 20/30 mtrs Dash
2. Shuttle Run, High knees
3. German Drill, Fire Feet's, 50mtrs Sprint
4. Hips Raises 20 reps

**PHYSICS**

Ls.12 Electricity

Electric current and circuits, electric potential and potential difference, circuit diagrams.

Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends.

Series combination of resistors, parallel combination of resistors, Power, Heating Effect

Lab Manual:

Experiment 5 A: Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determining its resistance and plotting a graph between V and I.

Experiment 5 B: To determine the equivalent resistance of two resistors when connected in series and in parallel.

**AI**

Part A - Unit 4 : Entrepreneurial Skills-II,

Part B - Unit 6 : Natural Language Processing

Scratch-

[https://scratch.mit.edu/projects/editor/?tutorial=animate-a-character,](https://scratch.mit.edu/projects/editor/?tutorial=animate-a-character)

<https://scratch.mit.edu/projects/editor/?tutorial=make-it-fly> Glide around and Make it Fly.

**HEALTH & WELLNESS**

Health And Physical Education

Sports Services - Government Sports Agencies

Yoga- Shavasana, Makarasana (Steps And Benefits)

Sports and Free Play: Handball

Orientation to Physical Education - dimension of playfield of different sports (indoor & outdoor)

**BIOLOGY**

Ls. 7: How do organisms reproduce?

Reproduction in Animals-Reproductive health-need and methods of family planning. Safe sex vs HIV/AIDS.

Childbearing and women's health.

Ls.8: Heredity

Lab Manual :

Experiment 15: To study (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of permanent slides

**SIGN LANGUAGE**

Practice & Language

Teachers will make placards of the sign words to show to the students in the assembly.

**LIFE SKILLS/ EMOTIONAL WELLBEING**

Decision Making, Critical Thinking, Building Confidence, Problem Solving, Managing Emotions, Coping with Stress, Responsibility & Accountability

**ART & CRAFT**

Natural Forms

3. Landscape

Folk Art

1. Folk Art form of India

**MUSIC**

Vande Mataram

**MORAL VALUES & ASSEMBLIES**

Habit 4- Think win-win (Everyone can win) and related stories

Core Value:

1.Perseverance 2.Loyalty

Festivals/Special day celebration assemblies:

Independence Day, Parsi New Year, Onam, Raksha Bandhan

**FINANCIAL LITERACY**

**MSSP STUDY MATERIAL**

Term II History

Part I: Information Technology in Insurance Sector

Part II: Insurance Ombudsman

(3 sessions)

Activity: Organise a ROLE play depicting the Role of Ombudsman in different financial institution



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 Class - X

**SEPTEMBER 2024**

<u>ENGLISH</u>	<u>HINDI</u>
Revision	पद्य- 7 तोप (अवशिष्ट भाग) लघुकथा , ईमेल – औपचारिक रचनात्मक लेखन- दोहराव
<u>MATHEMATICS</u>	<u>MARATHI</u>
<b>Ls 11: Areas Related to Circles:</b> Area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60°, 90° and 120° only. <b>Lab Manual Activity:</b> Sum of area of sectors formed at vertices of a triangle.  <b>Revision for Half Yearly examination.</b>	10) रंग साहित्याचे प्रथम सत्र परीक्षा
<u>PHYSICS</u>	<u>SOCIAL SCIENCE</u>
Revision	History: Revision Democratic Politics.: Revision Geography: Revision Economics: Ch.3. Money and Credit-Unit-4,5 &6 Activity- 2. Collect information about the various types of loans provided by the banks
<u>BIOLOGY</u>	<u>CHEMISTRY</u>
Doubt Clearing Sessions	Ls.4: Carbon and its compounds (continued) Homologous series, Nomenclature of carbon compounds.
<u>LIFE SKILLS/EMOTIONAL WELLBEING</u>	<u>AI</u>
Communication Skills, Interpersonal Skills, Self-awareness, Empathy	Revision
<u>FINANCIAL LITERACY</u>	Scratch- <a href="https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon">https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon</a>
<b>MSSP STUDY MATERIAL</b>  Term II Mathematics SEBI Grievance Redressal(1 session)	
<u>ART &amp; CRAFT</u>	<u>MUSIC</u>
<b>Decorative Art:</b> Calligraphy, Mandala Art	Believer

**HEALTH & WELLNESS**

**Health And Physical Education**

**Food and Nutrition** - Need of dietary planning, importance

**Yoga-** Setu Bandhasana, Ardha Chakarasana (Steps And Benefits)

**Sports and Free Play** - Basketball

**Mass Drill and Fitness**

Fitness- types of sports training

**MORAL VALUES & ASSEMBLIES**

**Habit 5-** Seek first to understand than to be understood (Listen Before you talk) and related stories

**Core Value:**

1. Dignity of Labour
2. Freedom
3. Prudence

<https://www.spiritualbee.com/posts/stories-from-mother-mirra-prudence-merchant-and-vultures/>

**Festivals/Special day celebration assemblies:**

Janmashtami, Ganesh Chaturthi, Id-e Milad

**SIGN LANGUAGE**

Sorry - Please

Teachers will make placards of the sign words to show to the students in the assembly.

**PHYSICAL EDUCATION**

1. Suryanamaskar practice
2. Plank Hold, Superman hold
3. Push up Hold, Side Plank Hold
4. Flutter Kicks Russian twist

Believe in Yourself



**THE LEXICON SCHOOLS**  
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**Class - X**

**OCTOBER 2024**

**ENGLISH**

First Flight  
 Prose:  
 9. The Proposal  
 Poems:  
 9. The Tale of Custard the Dragon  
 10. For Anne Gregory  
 Supplementary Reader: Footprints without Feet  
 9. The Book that saved the Earth  
 Grammar:  
 Practice Exercises  
 Creative Writing: Practice Exercise

**MATHEMATICS**

**Ls 12: Surface area and volume:**  
 Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres, and right circular cylinders/cones.  
**Lab Manual Activity:**  
 Area of right circular cone  
 Volume of a Right circular cylinder  
**Art Integrated Activity:** Comparison of surface areas of right circular cylinders.

**Ls 13: Statistics:**

Mean, median and mode of grouped data (bimodal situation to be avoided).

**Lab Manual Activity:**

To find median and mode graphically

**Ls 14: Probability:**

Classical definition of probability. Simple problems on finding the probability of an event.

**Lab Manual Activity:**

Idea of Probability

Determination of Experimental Probability

**PHYSICS**

Physics: Ls. 13: Magnetic Effects of Electric Current  
 Magnetic field and magnetic lines, magnetic field due to the current carrying conductor-straight conductor, circular loop, solenoid, force on a current carrying conductor in a magnetic field, domestic electric circuits.

**HINDI**

स्पर्श : गद्य - पाठ 9 कारतूस  
 स्पर्श: पद्य - पाठ 8 कर चले हम फ़िदा,  
 पाठ 9 आत्मत्राण

**MARATHI**

15) खरा नागरिक  
 16) स्वप्न करू साकार (कविता)  
 स्थूलवाचन:- व्युत्पत्ती कोश  
 आवृत्ती:-व्याकरण/ उपयोजित लेखन

**SOCIAL SCIENCE**

History: Ch.5. Print Culture and the Modern World  
 Activity- Historical Newspaper Project: Ask students to create a newspaper that reflects the print culture during the modern world period. Include articles, advertisements, and illustrations that represent the impact of print culture on society.

Democratic Politics.: Ch.5. Outcomes of Democracy  
 Activity- Group discussions and debates on democratic values, allowing students to share their perspectives and learn from each other.

Geography: Ch.6. Manufacturing Industries  
 Activity- 1. Debate on 'Industries a boon or bane' 2. GO and poster making on various types of pollution made by industries

Ch.7. Lifelines of National Economy-Map Work  
 Economics: Ch.4. Globalization and The Indian Economy-Unit-1&2

Activity- Debate on- "Globalization has hurt/ helped in India's Development." & Interdisciplinary project

**CHEMISTRY**

Chemistry : Ls.4: Carbon and its compounds (continued)

Chemical properties of carbon compounds (Ethanol and Ethanoic acid), Soaps and Detergents

Lab Manual: Experiment 10: To study the following properties of acetic acid: Odour, solubility in water, effect on the litmus paper, and reaction with carbonate solution.

**BIOLOGY**

Biology : Ls.8: Heredity  
 Heredity; Mendel’s contribution- Laws for inheritance of traits: Sex determination: brief introduction.  
 Ls.13: Our environment  
 The ecosystem and its components, food chains and webs, and human activities affect the environment.  
 Submissions of the Journal & portfolio work assigned on Sustainable Management of natural resources.

**PHYSICAL EDUCATION**

1. Lunge & Forward Bending Stretch hold
2. Tri cep & Biceps Stretch hold
3. Alternate toe touch
4. Bhujangasan & Vajrasan hold

**FINANCIAL LITERACY**

**MSSP STUDY MATERIAL**

**Term II Political Science**

Part I : Economic cycle  
 Part II : Investing in Shares

**Activity:** Students to research on the great depression of 1930s and the equity market in that period and present a report in less than 1000 words.

Part III : Initial Public Offerings (4 sessions)

Track any 3 IPOs launched in the last 3 years and check their performance (IRCTC, PAYTM, LIC)

**English** - New Pension Scheme (1 session)

**HEALTH & WELLNESS**

**Health And Physical Education**

We And Environment- Healthy Community Living

**Yoga-** Virabhadrasana,Utkatasana (steps and benefits)

**Sports and Free Play** - Volleyball

**Mass Drill and Fitness**

Physical fitness test

100m run, 600m run/walk test, sit-ups, push-ups, shuttle run, vertical standing broad jump

**AI**

Part A - Unit 5: Green Skills II

Part B - Unit 6: Evaluation

Scratch-

[https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon.](https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon)

**ART & CRAFT**

Human Figure

1. Picture Composition with Figure Drawing
2. Human Face (Portraiture)- Three-quarters view

**MUSIC**

Raag Yaman

**MORAL VALUES & ASSEMBLIES**

Habit 6: Synergize (Together is Better)

Core Value:

1. Truthfulness
2. Kindness

Festivals/Special day celebration assemblies:

Mahatma Gandhi Jayanti, Navratri, Dussehra

**SIGN LANGUAGE**

How are you? 6:06 to 6:29)

I am fine. (6:29 to 6:53)

<https://youtu.be/VtbYVDltvg>

**LIFE SKILLS/EMOTIONAL WELLBEING**

Effective Communication, Interpersonal Skills, Self Awareness, Empathy

**MUSIC**

Raag Yaman



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 Class - X

**NOVEMBER 2024**

<p align="center"><b><u>ENGLISH</u></b></p> <p>Revision for Short Test Series</p>	<p align="center"><b><u>HINDI</u></b></p> <p>स्पर्श -                  पद्य- 9) आत्मत्राण (अवशिष्ट भाग)                  संचयन- 3) टोपी शुक्ला</p>
<p align="center"><b><u>MATHEMATICS</u></b></p> <p>Revision for Short Test Series</p>	<p align="center"><b><u>MARATHI</u></b></p> <p>घटक चाचणी</p>
<p align="center"><b><u>BIOLOGY</u></b></p> <p>Revision for Short Test Series</p>	<p align="center"><b><u>SOCIAL SCIENCE</u></b></p> <p>Revision &amp; Interdisciplinary project</p>
<p align="center"><b><u>PHYSICS</u></b></p> <p>Ls.12-Magnetic Effects of Electric Current (continued)                  Electric motor, electromagnetic induction, Fleming’s right-hand rule, electric generator, domestic electric currents.</p>	<p align="center"><b><u>CHEMISTRY</u></b></p> <p>Revision.                  Doubt Clearing Sessions.                  NCERT Exemplar- Solving exercises.</p>
<p align="center"><b><u>AI</u></b></p> <p>Revision                  Scratch-  <a href="https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon">https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon</a>.</p>	<p align="center"><b><u>FINANCIAL LITERACY</u></b></p> <p><b><u>MSSP STUDY MATERIAL</u></b></p> <p>Term II - Economics                  Part I - Learning To Trade                  Part II - Stock Exchange and Economy</p> <p><b>Activity:</b> Make a list of all the Biggest Stock Exchanges around</p>
<p align="center"><b><u>ART &amp; CRAFT</u></b></p> <p><b>Creative Art</b></p> <ol style="list-style-type: none"> <li>1. Illusion Art</li> <li>2. T-shirt Designing</li> </ol>	<p align="center"><b><u>MUSIC</u></b></p> <p>Happy Diwali,                  Annual songs</p>
<p align="center"><b><u>PHYSICAL EDUCATION</u></b></p> <ol style="list-style-type: none"> <li>1. Book Balance on one Leg.</li> <li>2. Thin line walk on Toes</li> <li>3. One Leg Aeroplane hold</li> <li>4. Tadasan &amp; Vrksahasana</li> </ol>	<p align="center"><b><u>LIFE SKILLS/EMOTIONAL WELLBEING</u></b></p> <p>Self-Awareness, Communication Skills, Interpersonal Skills, Problem Solving, Decision Making, Managing Emotions</p>



**HEALTH & WELLNESS**

**Health And Physical Education**

**Safety And Security-** Common Injuries

**Yoga-** Kati Chakrasana, vrukshasana (steps and benefits)

**Sports and Free Play - Kabaddi**

**Human Body** - effects of exercise on the body and different tools uses in sports

**MORAL VALUES & ASSEMBLIES**

**Habit 7:** Sharpen the Saw (Balance Feels Best)

**Core Value:**

1. Appreciation
2. Proactive

**Festivals/Special day celebration assemblies:**

Diwali, Guru Nanak Jayanti.

**SIGN LANGUAGE**

Happy & Sad

Teachers will make placards of the sign words to show to the students in the assembly.

**GRATITUDE**

Week 1 - Educators strategy of noticing great things about students, making a note of them and sharing them with the students.(using sticky notes)

Week 2 - Journaling: Purpose of the exercise will be to reflect on the past few days or weeks and writing a few things children are especially grateful for

Week 3 - Reflection on gratitude: Mindfulness meditation and cultivation of a sense of self-awareness and moving to children's immediate environment

Week 4 - Gratitude meal: Children will share healthy snacks/dishes with their peers.

Believe in Yourself



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 Class - X

**DECEMBER 2024**

<p align="center"><b><u>ENGLISH</u></b></p> <p>Pre board and Revision</p>	<p align="center"><b><u>HINDI</u></b></p> <p>दोहराव , पूर्वपरीक्षा</p>
<p align="center"><b><u>MATHEMATICS</u></b></p> <p>Revision Pre board-I</p>	<p align="center"><b><u>MARATHI</u></b></p> <p>पूर्व परीक्षा</p>
<p align="center"><b><u>BIOLOGY</u></b></p> <p>Revision Doubt Clearing Sessions NCERT Exemplar- Solving exercises</p>	<p align="center"><b><u>SOCIAL SCIENCE</u></b></p> <p>Revision</p>
<p align="center"><b><u>PHYSICS</u></b></p> <p>Revision Doubt Clearing Sessions NCERT Exemplar- Solving exercises</p>	<p align="center"><b><u>CHEMISTRY</u></b></p> <p>Revision Doubt Clearing Sessions NCERT Exemplar- Solving exercises</p>
<p align="center"><b><u>AI</u></b></p> <p>Pre board and Revision</p>	<p align="center"><b><u>FINANCIAL LITERACY</u></b></p> <p>Revision</p>
<p align="center"><b><u>HEALTH &amp; WELLNESS</u></b></p> <p>Health And Physical Education Social Health- Community Health Yoga- Naukasana, viprit naukasana (steps and benefits) Sports and Free play - Chess</p> <p>Mass Drill and Fitness Theory on fitness - fitness components (HRPF &amp; SRPF), track &amp; field events</p>	<p align="center"><b><u>MORAL VALUES &amp; ASSEMBLIES</u></b></p> <p>Habit 8: Find your voice and inspire others to find theirs.</p> <p>Core Value: 1. Integrity 2. Kindness</p> <p>Festivals/Special day celebration assemblies: Christmas</p>
<p align="center"><b><u>SIGN LANGUAGE</u></b></p> <p>Bright &amp; Dark</p> <p>Teachers will make placards of the sign words to show to the students in the assembly.</p>	<p align="center"><b><u>LIFE SKILLS/EMOTIONAL WELLBEING</u></b></p> <p>Coping with Stress, Communication Skills, Critical Thinking, Problem Solving</p>



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**JANUARY 2025**

<b><u>ENGLISH</u></b>	<b><u>HINDI</u></b>
Pre board and Revision	दोहराव , पूर्व परीक्षा
<b><u>MATHEMATICS</u></b>	<b><u>MARATHI</u></b>
Revision Preboard-II	पूर्व परीक्षा
<b><u>BIOLOGY</u></b>	<b><u>SOCIAL SCIENCE</u></b>
Revision Doubt Clearing Sessions NCERT Exemplar- Solving exercises	Pre board and Revision
<b><u>PHYSICS</u></b>	<b><u>CHEMISTRY</u></b>
Revision Doubt Clearing Sessions NCERT Exemplar- Solving exercises	Revision Doubt Clearing Sessions NCERT Exemplar- Solving exercises
<b><u>AI</u></b>	<b><u>FINANCIAL LITERACY</u></b>
Pre board and Revision	Revision
<b><u>HEALTH &amp; WELLNESS</u></b>	<b><u>MORAL VALUES &amp; ASSEMBLIES</u></b>
Health And Physical Education	Habits 1 to 8 - Revision
<b>Social Health-</b> Outstanding personalities in Health and Sports <b>Yoga-</b> Padahasthasana, Trikonasana (steps and benefits) <b>Sports and Free Play</b> Volleyball <b>Mass Drill and Fitness</b> Fitness - 100m run, 600m run/walk test, sit-ups, push-ups, shuttle run, vertical standing broad jump	<b>Core Value:</b> 1. Responsibility 2. Encouragement  Teachers will make placards of the sign words to show to the students in the assembly.
<b><u>SIGN LANGUAGE</u></b>	<b><u>LIFE SKILLS/EMOTIONAL WELLBEING</u></b>
Yes & No (1:56 to 2:26) <a href="https://youtu.be/-Eh3ktA52jw">https://youtu.be/-Eh3ktA52jw</a>	Managing Emotions, Self Awareness, Coping with stress, Interpersonal Skills, Decision Making, Problem Solving
	<b><u>PHYSICAL EDUCATION</u></b>
	1. Weight / Height Measurement 2. BMI Calculation



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**FEBRUARY 2025**

**MORAL VALUES & ASSEMBLIES**

Habits 1 to 8 - Revision

**Core Value:**

1. Innovation
2. Dedication

Festivals/Special day celebration assemblies: Vasant Panchami, Shivaji Jayanti

**SIGN LANGUAGE**

Easy & Difficult

Teachers will make placards of the sign words to show to the students in the assembly.

**Preparatory leave**

**SEWA**

(SOCIAL EMPOWERMENT FOR WORK AND ACTION)

**TERM I**

1. Plant and save trees: Go green
2. Swachh Bharat Abhiyan

**TERM II**

1. Creating awareness on Climate Change
2. Road Safety awareness: Live & Let Live.

**MANAGEMENT SKILLS**

**TERM I**

1. Why is it important to spread awareness on food habits?
2. Maintaining books.

**TERM II**

1. How can we help the distressed people who have been rescued from a flooded area?
2. Stress Management

**INVESTIGATIONS**

**TERM I**

2. Investigation Based Learning  
Chapter - Crop Production and Management  
  
In India, a large amount of grains is destroyed in storage, due to various reasons.  
Investigation: Create a presentation on "The reality of food grain storage in India"  
  
Or  
  
3. Investigation Based Learning  
Chapter - Crop Production and Management  
  
Maharashtra is the first state to adopt 'Dry Land Farming Technology' with the mission to help its

**TERM II**

- Topic: Coal and Petroleum**
1. List down various oil producing companies and give some information about them.  
(Perform the activity on an A3 size paper.)
  2. Locate the top 5 Coal and Crude Oil producing places on India and world map.
- Topic: Conservation of plants and Animals**
1. Visit local garden /forest/biological park and try to identify the flora and fauna of your area and list them.
  2. List national parks, wild life sanctuaries and biosphere reserves of India and show on map of India. (Perform the activity on an A3 size

<p>farmers. Investigation: Study of Dryland Farming Technologies by the Dryland Farmers in Maharashtra State.</p>	<p>paper.) <b>Topic: Combustion and Flame</b> 1. To investigate the condition for combustion for combustion to take place and the characteristics of different flame zones with their uses. <b>Topic: Reaching the age of adolescence</b> 1. Draw a body map depicting changes during adolescence.</p>
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<b>LIFE SKILLS &amp; EMOTIONAL QUOTIENT</b>	
<b>April</b>	<p>Topic: Self Awareness Activity: Self Awareness SWOT Analysis Life Skills to be enhanced: Self Awareness, Empathy, Goal Setting, Managing Emotions.</p>
<b>June</b>	<p>Topic: Empathy Activity: Empathy mapping Life Skills to be enhanced: Self Awareness, Empathy, Coping with stress, Managing Emotions, Interpersonal Relationship, Communication Skills</p>
<b>July</b>	<p>Topic: Critical &amp; Creative Thinking Activity: Zoom Life Skills to be enhanced: Critical Thinking, Decision Making, Problem Solving, Communication Skills</p>
<b>August</b>	<p>Topic: Decision Making Activity: The 5 Whys Life Skills to be enhanced: Decision Making, Critical Thinking, Building confidence, Problem Solving, Managing Emotions, Coping and stress, Communication Skills, Responsibility and Accountability</p>
<b>September</b>	<p>Topic: Problem Solving Activity: Ideal Problem Solving Life Skills to be enhanced: Critical Thinking, Decision Making, Problem Solving, Communication Skills, Coping with Stress.</p>
<b>October</b>	<p>Topic: Effective Communication Activity: Pictionary Life Skills to be enhanced: Communication skills, Interpersonal Skills, Self Awareness, Empathy</p>
<b>November</b>	<p>Topic: Interpersonal Relationship Activity: Web of Relationships Life Skills to be enhanced: Self Awareness, Communication</p>

<p><b>December</b></p>	<p>Skills, Interpersonal Skills, Problem Solving, Decision Making, Managing Emotions</p> <p>Topic: Coping with Stress            Activity: Digital Detox Challenge            Life Skills to be enhanced: Self Awareness, Managing Emotions, Coping with Stress, Interpersonal Skills, Decision making, Problem Solving</p>
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## INTEGRATED PROJECTS

### TERM II

#### TERM I

#### 1) Topic: Ch. 5 Data Handling & Ch. 8 Comparing Quantities

- ❖ **Restaurant Menu Project:** Design/ Create a menu card for a themed restaurant. The student will write word problems using their menu. It can be a very fundamental element, just adding prices of different items, to more complex problems, like finding the cost of a meal for you and a friend plus tax or figuring the cost of the meal for grandma with her senior discount of 10%. The criteria for each of the following items in the menu are as follows: 4 different types of appetizers, 4 different types of beverages and 4 main dishes. Draw a pie chart showing sale on each day of week.

**Subjects included:** Math, English, Art  
OR

#### 1) Topic: Ch. 3 Understanding Quadrilaterals

- ❖ **Design your dream house:** Draw a 2D version of how you want the front of your house to look like. Must include four windows, and two doors. All lines must be drawn with the help of a ruler and must be in centimetres. Students must then determine the perimeter and area of each window and the door. You must also do the same for the front of the house such that the perimeter and the area. Then you must convert these measurements to millimetres. Each dimension must be written in a typical drafting fashion. Houses must be uniformly coloured, and students may add additional features.

**Subjects included:** Math, Science, Art.

#### 2) Chapter- Pollution Of Air and Water

**Goal:** To study the Air Quality Index (AQI) details in Pune, Maharashtra. The term 'air quality' refers to the degree to which the air in a particular place is free in a particular place is free from pollutant.

#### STEP -1

Create an AQI Data collection sheet similar to the format given below.

Date	AQI Number	AQI Colour	AQI Description

**STEP -2** Check the daily AQI details by downloading a mobile app such as SAFAR-AIR. Pick the data from the monitoring centre that is closest to your home.

**STEP -3** Collect the daily AQI data for a month by recording the daily details in your template.

**STEP - 4** Observe the AQI trend from the daily data. Create a graphical representation for a clearer picture.

**Topic:** Some natural phenomena

1. Show repulsion between two charged balloons. Attraction or repulsion? Write observations and also state why does it happen.

(Perform the activity on an A3 size paper and write your observation along with the reason. Also draw an illustration.)

**Subjects included:** Science, Maths, Art

**Topic:** Light-Multiple reflections

1. Construction of a kaleidoscope using colored paper and translucent beads.

(Perform the activity using cardboards, plane mirrors and protractor.

**Subjects included:** Science, Maths and Art

**Topic:** Reproduction in Animals

1. Prepare a flip book on asexual reproduction in hydra and amoeba.

Perform the activity using drawing sheets and sketchpens.

Cut drawing sheets in small square and rectangles and make a small book.

**Subjects included:** Science, Maths and Art

**Topic:** Reaching the age of Adolescence:

1. To draw flow chart depicting role of hormones.

(Perform the activity on an A3 size paper and label it)

**Subjects included:** Science and Art

2. List down the food consumed during a week. Identify the items responsible for proper growth and the junk food that had been consumed.

**Topic:** Pollution of air and water

1. Prepare a ppt on various tragedies caused by water/air pollution

**Subjects included:** Science, social science, ICT and Art