

SHIVALIK PUBLIC SCHOOL
SYLLABUS
CLASS : X (2022-23)

SUBJECT: ENGLISH CLASS X SYLLABUS UNIT 1 & 2

UNIT 1

LITERATURE READER-

F1- A LETTER TO GOD

Key Words- dotted, downpour, affixed, locusts, amiable

P1a)- Dust of snow

Key Words- hemlock, shook, rued

P1b)- Fire and Ice

Key Words – perish, suffice, avarice, rigidity

Supplementary Reader

CH-1-A TRIUMPH OF SURGERY

Key Words- rheumy, swooned, slopped, whimper, scrimmages

Writing section: Formal letter (letter to editor)

Grammar : Tenses, Determiners

Activity : Listening task , Reading Comprehension

UNIT 2

Literature Reader-

F2- NELSON MANDELA: LONG WALK TO FREEDOM

Keywords- inhumane, besieged, chevron, brutality, grimmest

P2-A Tiger in the Zoo

Key Words- vivid, lurking, patrolling baring, fangs, snarling

Supplementary Reader

Ch-2-The Thief's Story

Key Words- grunting, unlined, crept ,modestly, drizzle

Writing section: Formal letter (placing an order)

Grammar : Subject-verb agreement

Activity : Crossword puzzle based on 'Nelson Mandela: Long Walk to Freedom'

SUBJECT : MATHEMATICS - X (CODE NO. 041)

SYLLABUS FOR UNIT TEST -1 (UNIT-I and UNIT-II)

UNIT-I

CHAPTER 1: REAL NUMBERS

KEY WORDS: Fundamental Theorem of Arithmetic, HCF, LCM, Real numbers, Rational numbers, Irrational numbers

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

ACTIVITY 1.- Crossword puzzle

CHAPTER 2: POLYNOMIALS

KEY WORDS: Polynomial, Degree of polynomial, Constant polynomial, Linear polynomial, Quadratic polynomial, Cubic polynomial, Zero of a polynomial.

CONTENTS: Zeroes of a polynomial. Relationship between zeroes and coefficients of quadratic polynomials.

ACTIVITY 2.- To draw the graph of a quadratic polynomial and observe.

- (i) The shape of the curve when the coefficient of x^2 is positive.
- (ii) The shape of the curve when the coefficient of x^2 is negative.
- (iii) Its number of zeroes.

UNIT-II

CHAPTER 3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES

KEY WORDS: Linear Equation, Solution of linear equation, Consistent system, Inconsistent system, Substitution method, Elimination method,

CONTENTS: 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 and by elimination. Simple situational problems.

ACTIVITY 3.- To verify the conditions for consistency of a system of linear equations in two variables by graphical representation.

SUBJECT:SCIENCE

(CODE NO. 086)

UNIT-I:

1.CHEMICAL REACTIONS AND EQUATIONS: Chemical equation-forms and balancing.

2.LIGHT REFLECTION AND REFRACTION- Reflection of light by curved surfaces; Images formed by spherical mirrors.

Practical: Determination of the focal length of:

- (i) Concave mirror
- (ii) Convex lens

By obtaining the image of a distant object.

3.LIFE PROCESSES: Nutrition in plants and animals,
Practical – Preparing a temporary mount of a leaf peel to show stomata.

UNIT-II:

1.CHEMICAL REACTIONS AND EQUATIONS.

Types of chemical reactions: Combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation, and reduction.

PRACTICAL:

1.Performing and observing the following reactions and classifying them into:

- A. Combination reaction B. Decomposition reaction C. Displacement reaction D. Double displacement reaction
- (i) Action of water on quicklime
- (ii) Action of heat on ferrous sulphate crystals
- (iii) Iron nails kept in copper sulphate solution
- (iv) Reaction between sodium sulphate and barium chloride solutions

(v) Reaction between sodium sulphate and barium chloride solutions.

2. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:

i) $\text{ZnSO}_4(\text{aq})$ ii) $\text{FeSO}_4(\text{aq})$ iii) $\text{CuSO}_4(\text{aq})$ iv) $\text{Al}_2(\text{SO}_4)_3(\text{aq})$

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result

2. LIGHT-REFLECTION AND REFRACTION - Centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification.

3. LIFE PROCESSES -- Respiration in plants and animals

PRACTICAL-Experimentally show that carbon dioxide is given out during respiration.

SUBJECT: SOCIAL SCIENCE

UNIT 1 (2 CHAPTERS)

CH 1 RESOURCES AND DEVELOPMENT: (GEOGRAPHY)

• Concept • Development of Resources • Resource Planning - Resource • Planning in India, Conservation of Resources Land Resources • Land Utilization • Land Use Pattern in India • Land Degradation and Conservation • Measures Soil as a Resource - Classification of • Soils, Soil Erosion and Soil Conservation (excluding Box Information on State of India's Environment)

ACTIVITY- Draw a soil profile on an activity sheet and label each layer of soil.

CH 1 POWER SHARING: (POLITICS)

• Belgium and Sri Lanka • Majoritarianism in Sri Lanka • Accommodation in Belgium • Why power sharing is desirable? • Forms of Power Sharing

ACTIVITY- Make a chart of comparative study of the two countries (Sri Lanka and Belgium) to study the power sharing arrangement .

UNIT 2 (3 chapters)

CH 1 DEVELOPMENT (ECONOMICS)

•What Development Promises – Different People, Different Goals
Income and Other Goals• National Development• How to compare different countries or states?
• Income and other criteria• Public Facilities• Sustainability of Development

CH 2 FEDERALISM: (DEMOCRATIC POLITICS)

• What is Federalism? • What make India a Federal Country?• How is Federalism practiced? • Decentralization in India

CH 2 SECTORS OF INDIAN ECONOMY (ECONOMICS)

• Sectors of Economic Activities • Comparing the three sectors • Primary, Secondary and Tertiary Sectors in India • Division of sectors as organized and unorganized • Sectors in terms of ownership: Public and Private Sector.

SUBJECT :INFORMATION TECHNOLOGY (402)

UNIT 1

COMMUNICATION SKILLS-II (Employability Skill- Part A book)

Activity : 1. Make a mind map of elements of communication.

OR

Mind map of 7Cs of Effective Communication.

2. Make a mind map of barriers of effective Communication.

UNIT 2

DIGITAL DOCUMENTATION ADVANCED (Part B book)

- Session 1: Create And Apply Styles In The Document
- Session 2: Insert And Use Images
- Session 3: Create And Use Template
- Session 4: Create And Customize Table Of Contents
- Session 5: Implement Mail Merge
- **Activity:** one activity from each session

1.- Create a pamphlet on Cyber Awareness. Apply different style
OR

- Write your resume/ Bio Data and apply different styles on it.

2.- Create a New Year card using images **OR**

- Create a Poster on Health and Hygiene –

3. - Create your own template for any topic of your subject.

4.- Create a document in Word on a topic of your choice of minimum 10 pages.

Format the document with various fonts (minimum 12, maximum 15) and margins (minimum 2, maximum 4).

The document should include

- a) A bulleted or numbered list
- b) A table containing relevant details
- c) A picture of lion using clip art gallery
- d) An example of word art
- e) A header with student name & date
- f) A footer with pagination Create a table of contents for this document

5.Type a letter inviting friends and/or family to a party you are hosting. For example,

you can host a birthday party or your parents' anniversary party. You pick the event.

Your letter will serve as your form letter. Save your letter as Mail Merge Letter.

SUBJECT -HINDI

सत्र (2022-23)

कक्षा -दसवीं

विषय -हिंदी

Unit -1 स्पर्श पुस्तक

काव्य खंड

पाठ -1 साखी (कबीर दास)

पाठ -1 बड़े भाई साहब (गद्य खंड)

औपचारिक पत्र, अपठित गद्यांश

Unit -2 स्पर्श पुस्तक

काव्य खंड

पाठ -2 पद (मीराबाई)

पाठ - डायरी का एक पन्ना

मुहावरे, सूचना लेखन, वाक्य रूपांतरण, पठित काव्यांश

SUBJECT –PUNJABI

Unit test -1

ਕਹਾਣੀ – ਕੁਲਫੀ

ਸ਼ਬਦ-ਸੋ ਕਿਉਂ ਮੰਦਾ ਆਖੀਐ

ਵਿਆਕਰਨ-ਮੁਹਾਵਰੇ 'ਕ' ਅੱਖਰ ਵਾਲੇ , ਬਹੁਅਰਥਕ ਸ਼ਬਦ (ੳ, ਅ ਅੱਖਰ ਵਾਲੇ), ਸਮਾਸੀ ਸ਼ਬਦ (ਸਮਾਨਾਰਥਕ

Unit Test-2

ਵਾਰਤਕ - ਘਰ ਦਾ ਪਿਆਰ

ਵਿਆਕਰਨ- ਸਮਾਸੀ ਸ਼ਬਦ (ਵਿਰੋਧੀ ਸ਼ਬਦ)

ਮੁਹਾਵਰੇ 'ਖ' ਅੱਖਰ ਵਾਲੇ, ਬਹੁਅਰਥਕ ਸ਼ਬਦ ('ਸ' ਅੱਖਰ ਵਾਲੇ)

ਪੱਤਰ-ਨਿੱਜੀ ਪੱਤਰ