<table>
<thead>
<tr>
<th>Subject</th>
<th>Syllabus</th>
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<tr>
<td>English</td>
<td><strong>Literature:</strong> 1. How I Taught My Grandmother to Read</td>
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<td></td>
<td>2. A Dog Named Duke</td>
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<td>3. The Brook</td>
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<td>4. The Road Not Taken</td>
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<td>5. The Solitary Reaper</td>
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<td>6. Lord Ullin’s Daughter</td>
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<td>7. Villa for Sale</td>
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<td>8. Three Men in a Boat- Chapters 1-10</td>
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<td><strong>Main Course Book</strong></td>
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<td>1. People</td>
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<td>2. Adventure</td>
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<td>3. Environment</td>
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<td>4. The Class IX Radio and Video Show</td>
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<td><strong>Writing Skills</strong></td>
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<td>1. Diary</td>
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<td>3. Short Story Writing</td>
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<td><strong>Grammar</strong></td>
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<td>1. Integrated grammar- Gap Filling, Editing/Omission, Sentence Reordering/</td>
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<td>Sentence Transformation</td>
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हिंदी

अपहित बोध - अपठित गद्यांश व पद्यांश

व्यवहारिक व्याकरण - वर्ण-विचार, संधि, उपसर्ग- प्रत्यय, विराम-चिह्न।

साहित्य (स्पर्श) - रैदास के पद, रहीम के दोहे, आदमीनमा, धूल, दुख का अधिकार, ए
शिखर यात्रा, तुम कब जाओगे अतिथि।

संचयन - गिल्लू, स्मृति, कल्लू कुमार की उनाकोटी।

रचना - अनुष्ठित-लेखन, अनौपचारिक पत्र-लेखन, संवाद-लेखन, विज्ञापन

Math
1. Number Systems
2. Polynomials
3. Coordinate Geometry
4. Lines and Angles
5. Triangles
6. Euclid’s Geometry
7. Heron’ Formula

Social Science
(History/Civics/Geography/Economics)

Grade IX (2016-17) Social Science Term 1 Syllabus

1. History : L-1 French Revolution + Map
L-3 Nazism and the Rise of Hitler
Entire lessons along with Notebook Work, Re
Exercises and Smart Skills

2. Political Science : L-1 Democracy in the Contemporary World
L-2 What is Democracy? Why Democracy?
L-3 Constitutional Design
Entire lessons along with Notebook Work, Re
Exercises and Smart Skills

3. Geography : Chapter-1 India size, location
Chapter-2 India Physical Features
Chapter-3 India Drainage
Maps for all three chapters according to the n
Diagrams from all chapters.
Entire chapters, Handouts, Smart skills, revisic
& notebook work.

4. Economics : Chapter-1 The story of Palampur
Chapter-2 People as a resource
Entire chapters, Smart Skills, revision exercis
assignment sheets.
Physics

Unit III: Motion, Force and Work
Motion: Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, derivation of equations of motion by graphical method; elementary idea of uniform circular motion.

Chemistry

I: Matter-Nature and Behaviour
Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state-melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation. Nature of matter: Elements, compounds and mixtures. Heterogenous and homogenous mixtures, colloids and suspensions. MCQ on Practicals-
2. To prepare:
   a) a true solution of common salt, sugar and alum
   b) a suspension of soil, chalk powder and fine sand in water
   c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of:
      1 transparency
      1 filtration criterion
      1 stability
3. To prepare
   a) a mixture
   b) a compound
      using iron filings and sulphur powder and distinguish between these on the basis of:
      (i) appearance, i.e., homogeneity and heterogeneity
      (ii) behaviour towards a magnet
      (iii) behaviour towards carbon disulphide as a solvent
      (iv) effect of heat
4. To carry out the following reactions and classify them as physical or chemical changes:
   a) Iron with copper sulphate solution in water
   b) Burning of magnesium ribbon in air
   c) Zinc with dilute sulphuric acid
   d) Heating of copper sulphate crystals
   e) Sodium sulphate with barium chloride in the form of their solutions in water
5. To separate the components of a mixture of sand, common salt and ammonium chloride (or camphor) by sublimation.
6. To determine the melting point of ice and the boiling point of water.
Biology

Organization in the Living World

1. Cell - Basic Unit of life : Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes - basic structure, number.

2. Tissues, Organs, Organ System, Organism: Structure and functions of animal and plant tissues (only four types of tissues in animals; Meristematic and Permanent tissues in plants).

3. Improvement in food resources: Plant and animal breeding and selection for quality improvement and management; Use of fertilizers and manures; Protection from pests and diseases; Organic farming.

Practicals for MCQ:

1. To test (a) the presence of starch in the given food sample, (b) the presence of the 129 adulterant metanil yellow in dal.

2. To prepare stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams.

3. To identify Parenchyma and Sclerenchyma tissues in plants, striped muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams.

4. To determine the mass percentage of water imbibed by raisins.

French

Lessons 1,2,3,4,5,6

Unseen comprehension

Writing skills: eg weather forecast , message writing ,picture description ,putting a dialogue in order ,postcard writing

Grammar : Verbs ,articles ,negatives ,prepositions ,etc

Literature : Question and answers from the lessons , true and false , fill in the blanks ,etc and Value based questions

Sanskrit

मणिका - पाठ 1 से 6

अपठित अवबोधन

रचनात्मक कार्य

● अनौपचारिक अथवा औपचारिक पत्र

● चित्र वर्णन अथवा कथा रचना

अनप्रयुक्त व्याकरण

● उच्चारण स्थान

● संधि संधिच्छेदं वा

● उचितविभक्ति प्रयोगं

● उचितपात्तु प्रयोगं

● उपपदविभक्ति प्रयोगं

● प्रत्यय विभज्ञं संयोगं वा

Spanish

UNIT 1 - UNIT 6 BOOK

TOPICS:

1. Dialogue writing
2. Email writing
3. Description of a person using “ser, tener,estar and llevar.
4. The difference between “ser , estar and hay.
5. The prepositions used with estar for asking and telling directions.
6. The expressions of frequency. Meanings and making sentences.
7. The nationalities, masculine and feminine and countries.
8. Forming questions for the answers.
9. The expressions with “tener”
10. The verbs in the book and smart skills.
11. Making sentences with verbs.
13. Opposites in adjectives (workbook)
14. Gustar and encantar
15. The difference between Nadie, nunca, nada, algo, algun, alguien
16. The difference between muy, mucho, mucha, muchos, muchas, poco, poca, pocos, pocas.
17. The difference between ningun, ninguna, ninguno/ as
18. The professions
19. General questions related to age, nationality, family, what you do normally etc.
20. The verbs “creer, pensar, preferir, llevarse bien/mal”
21. The verbs in smart skills.
22. The numbers
23. Literature

FIT  Chapter 1: Computer System – An Overview
➢ What is a Computer
➢ Functional Components of a Computer
➢ Basic applications
➢ Characteristics of a Computer

Chapter 2: Computer Components – Functional Overview
➢ Input Devices (Keyboard, Scanner, Mouse, OCR, MICR, Light Pen, Bar Code Readers, Magnetic Stripe Reader, Microphone and Digicam)
➢ Output Devices (Monitors, Printers, Plotters and Speakers)
➢ The Processing Unit (ALU and CU)
➢ Units of Memory (byte, kilobyte, megabyte, gigabyte)
➢ Types of Main memory (RAM and ROM)
➢ Storage Devices (Floppy Disks, Hard Disks, Compact Disks, DVDs)
➢ New Age Memories (Pen/Flash Drives, Memory Stick)

Chapter 3: Computer Software
➢ Types of Software
➢ System Software - Definition of System software and operating system, definition of language processor & device driver
➢ Utility Software - Compression utility and Anti virus Software
➢ Application Software -> Types, Definition and examples

Chapter 4: Basics of Operating Systems(OS)
➢ Functions of Operating System
➢ Operating Systems based on types of Interfaces

Chapter 5: Working with Operating System
➢ Introducing OS Windows 7.
➢ Basic Components of a GUI Window.
➢ Starting/running and closing Applications.
➢ Basic tools of Windows OS (Calculator, Paint, Notepad, Wordpad).
➢ Managing Files and Folders.

Chapter 6: MS-Word
➢ Features of Word Processor
➢ MS-Word Window components (Menu bar, title bar, formatting toolbar, standard toolbar, ruler bar, status bar, scroll bar, work area)
➢ Creating/Opening/Saving a document.
➢ Word processing terminology (Non-printing characters, Word-wrapping, Text alignment)
➢ Character Formatting (Bold/Italic/Underline, Superscript/subscript, Font-type/size, Change case)
➢ Page Formatting (Margins, header and footer, numbering pages, line spacing, page orientation, Border and shading)
➢ Using grammar and spell-check utility.
➢ Inserting Graphics (drawing objects, autoshapes, WordArt, pictures, Textbox).
➢ Bulleted and Numbered lists.

Home Science
Chapter 1 : Concept and Scope of Home Science Education
Chapter 2 : Family - A unit of Society
Chapter 3 : Food, Nutrition & Health
Chapter 4 : Methods of Cooking
All the work done in the notebook, textbook and assignments.