First term Syllabus

Class 10

SUBJECT	SYLLABUS
ENGLISH	**Literature** 1. The Two Gentlemen of Verona 2. Mrs. Packletide's Tiger 3. The Letter 4. The Frog and the Nightingale 5. Mirror 6. Nor Marble, nor the Gilded Monuments (Sonnet 55) 7. The Dear Departed 8. Diary of a Young Girl (1947) by Anne Frank: June 12, 1942 to March 14, 1944 **Main Course Book** 1. Health and Medicine 2. Education 3. Science **Writing Skills** 1. Formal Letter to the Editor of a newspaper 2. Article 3. Short Story Writing **Grammar** 1. Integrated grammar- Gap Filling, Editing/Omission, Sentence Reordering/ Sentence Transformation

<table>
<tr><td></td><td></td></tr>
<tr><td><u>MATH</u></td><td>1. Similar Triangles
2. Trigonometric Ratios.
3. Trigonometric Identities.
4. Real Numbers.
5. Polynomials.
6. Pair of linear equations in two variables.
7. Statistics.</td></tr>
<tr><td>HINDI</td><td>हिंदी<table>
<tr><td>अपठित बोध -</td><td>अपठित गद्यांश व पद्यांश</td></tr>
<tr><td>व्यवहारिक व्याकरण -</td><td>शब्द और पद, समास, वाक्य,
अशुद्धि-शोधन, मुहावरे।</td></tr>
<tr><td>साहित्य (स्पर्श) -</td><td>कबीर, मीर, पर्वत प्रदेश में पावस, तोप, बड़े भाई साहब, डायरी का एक पन्ना, तताँरा वामीरो कथा, तीसरी
कसम के शिल्पकार : शैलेंद्र।</td></tr>
<tr><td>संचयन -</td><td>हरिहर काका।</td></tr>
<tr><td>रचना -</td><td>अनुच्छेद-लेखन, औपचारिक पत्र-लेखन,
संवाद-लेखन, विज्ञापन, सूचना-लेखन।</td></tr>
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FRENCH	**Entre Jeunes 2** • **Lecon 1-6** • Comprehension (unseen) • Letter writing • Message writing • Mettez le dialogue en ordre • Fill in the blanks • **Grammar**- Tenses, Pronoms personnels,Pronoms demonstratives, Negative,Les articles,Mettez les phrases en ordre. • **Literature**- Lessons 1 to 6 Questions based on the above lessons. CBSE based paper of 90 marks.
GERMAN	**Module 9 : Chapter 1 "Was fuer ein Typ ist Thomas?"** 1. Adjektiv als Attribut : mit bestimmtem Artikel und mit unbestimmem Artikel, Nominativ und Akkusativ 2. Fragewort : " Was fuer ein / eine….?" **Module 9 : Chapter 2 "Was soll ich anziehen?"** 1. Adjektiv als Attribut : mit bestimmtem Artikel und mit unbestimmtem Artikel Dativ und Genitiv 2. Fragewort : Welcher, welche,welches..? 3. Konjunktiv II : wuerde + infinitiv **Module 9 : Chapter 3 "Verstehst du dich gut mit deinen Eltern?"**

	1. Das Relativpronomen (Nominativ, Akkusativ, Dativ und Genitiv) 2. Der Relativsatz 3. Konjunktiv II : sein , haben , Modal Verben **Reading comprehension** **Writing Skills : E-mail / Brief / Poster making and Zusammenfassung** **Grammar based on the syllabus** **Value based questions**
SANSKRIT	Given separetely
HISTORY	1. Age of Industrialization 2. Novels, History and Society
POLITICAL SCIENCE	1. Power Sharing 2. Federalism 3. Democracy and Diversity 4. Gender, Religion and Caste
GEOGRAPHY	1. Resources, their types. Soils 2. Forest and Wildlife resources 3. Water 4. Agriculture Maps as per the list provided
ECONOMICS	1. Development

	2. Sectors of the economy
PHYSICS	Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R. Magnetic effects of current : Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule. Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule, Direct current. Alternating current : frequency of AC. Advantage of AC over DC. Domestic electric circuits. Sources of energy Different forms of energy,non-conventional sources of energy: , solar energy; water and tidal energy; nuclear energy. Renewable versus non-renewable sources. **PRACTICALS for MCQ** 1. To study the dependence of current (I) on the potential difference (V) across a resistor and determine its resistance. Also plot a graph between V and I. 2. To determine the equivalent resistance of two resistors when connected in series. 3. To determine the equivalent resistance of two resistors when connected in parallel
CHEMISTRY	

	Chapter1: Chemical reactions and equations Types of chemical reactions: Combination, decomposition, displacement, double displacement, oxidation and reduction in terms of gain and loss of oxygen, corrosion, rancidity. Chapter2: Acids, bases and Salts Understanding the chemical properties of acids and bases: how do acids and bases react with metals, how do metal carbonates and metal hydrogen carbonates react with acids, how do acids and bases react with each other, reaction of metallic oxides with acids, reaction of a non-metallic oxide with base, what happens to an acid or a base in a water solution . pH, importance of pH in everyday life, chemicals from common salt, sodium hydroxide, bleaching powder, baking soda, washing soda, plaster of Paris. Chapter3: Metals and non-metals Physical properties of metals and non-metals, chemical properties of metal, reactivity series, properties of ionic compounds, various metallurgical processes, corrosion, prevention of corrosion. Various metallurgical processes, corrosion, prevention of corrosion. Chapter 14: Sources of energy Conventional sources of energy : fossil fuels, thermal power plant , hydro power plant , biomass and wind energy . **Practical** Experiment – 1 To perform and observe the following reactions and classify them into: Ø Combination reaction Ø Decomposition reaction Ø Displacement reaction Ø Double displacement reaction (1) Action of water on quick lime.

	(2) Action of heat on ferrous sulphate crystals. (3) Iron nails kept in copper sulphate solution. (4)Reaction between sodium sulphate and barium chloride solutions. <u>Experiment – 2</u> To find the pH of the following samples: (i) Dilute HCl solution (ii) Dilute NaOH Solution (iii) Dilute ethanoic acid solution (iv) Lemon juice (v) Water (vi) Dilute sodium carbonate solution by using pH paper/ universal indicator. <u>Experiment – 3</u> To study the properties of acids (dil HCl) by their reactions with: (i) Litmus solution (Red/Blue) (ii) Zinc metal (iii) Sodium carbonate. <u>Experiment – 4</u> To study the properties of bases (dil NaOH sol) by their reactions with: (i) Litmus solution (ii) Zinc metal (iii) Solid sodium carbonate (iv) Phenolphthalein. <u>Experiment – 5</u>: (a) To observe the action of Zinc, iron, copper and aluminium on the following salt solutions: (i) $ZnSO_4$ (aq)

	(ii) $FeSO_4$ (aq) (iii) $CuSO_4$ (aq) (iv) $Al_2(SO_4)_3$ (aq) (b) Arrange Zn, Fe, Cu and Al in the decreasing order of reactivity based on the above result.
BIOLOGY	1. Life processes: 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals. 2. Control and co-ordination in animals and plants: Tropic movements in plants; Introduction of plant hormones; Control and co-ordination in animals: Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones. PRACTICALS FOR MCQ 1. To prepare a temporary mount of a leaf peel to show stomata. 2. To show experimentally that light is necessary for photosynthesis. 3. To show experimentally that carbon dioxide is given out during respiration.
HOME SCIENCE	Unit 1- Principles of growth and development; growth and development of children between birth to 3 years. Important milestones in physical, motor, social, emotional and language development of children; physical, social and emotional needs of children Unit3- Play: Meaning, need and types of play in children between birth and 3 yrs; characteristics of play- active, passive, natural, serious and exploratory: Play materials for children - characteristics of play material Unit 4. Nutrients: Functions, sources and deficiency of carbohydrates, proteins,fats. Minerals- Iron, calcium and iodine and vitamins- A, B,B2, c and D. Loss of nutrients during cooking, conservation and enhancement of nutrients. Unit 5. Meal planning: Concept, need and factors affecting meal planning, age, sex, climate, occupation, physical needs, number of family members, economic status of family, availability of food, family traditions, likes and dislikes and occasion; Food groups; use of food groups in planning balanced diet, food allowances suggested by

	ICMR. Unit 6. Food hygiene and methods of storage of food: Rules of hygienic handling of food, method of storage of perishable, semi- perishable and non- perishable and non-perishable foods.
FIT	**a. <u>Chap1- Introducing Internet:</u>** • What is a Network • Introduction to Internet (History of Internet, Advantages, Disadvantages) • WWW, Difference between WWW and Internet • Internet Terminology • Web Servers (difference between Server and Web Server) • Website (Components of a website) • Website vs. Portal, Web Pages (Content wise) • Difference between a Webpage and Website • Web Browsers (Graphical, Text only, Names of browsers) • Blogs, URLS (Elements of URL) • Protocols (HTTP), Newsgroups, HTML **b. <u>Chap2 - Internet and Web Services :</u>** • Information Retrieval • Search Engines (How Search Engine works) • Working with FTP (Downloading and Uploading files from Remote site) • Chat (Commonly used types of chat) • Email (Email Account & Address, Email Primer, Protocols used in email-only definitions, Email Etiquettes) • Video Conferencing (Areas of Application, Advantages & Disadvantages) • E-Learning(Areas of Application)

	• E-Banking, E-Shopping (Advantages & Disadvantages) • E-Reservation (Areas of Application, Benefits) • E-Groups (Benefits) Social Networking(Merits & Demerits) **c) <u>Chap3-Introducing Databases:</u>** • Advantages of Databases • Flat vs. Relational Database • BASE-DBMS (Tables, Queries, Forms and Reports) **d) <u>Chap4-OpenOffice.org BASE:</u>** • BASE Window Components • Create a Database using Wizard • Create a Blank Database • Field Name, Data Types (Fixed and Variable) , Length (Field size), Field Properties and Primary Key • Data types ->Text, Datetime, Numeral, • Special Data types • Create table using Design view • Adding a new field to the table, Moving a field, Deleting a Field • Field Properties (Entry Required, Length, Decimal Places, Default value, Format) • Setting Field Properties, Entering data in a table, Setting Primary key • Creating a Query in Design View • Selecting from Multiple tables, specifying multiple conditions **<u>e) Chap5: HTML – I (Basic HTML elements)</u>** • HTML and its capabilities

	• History of HTML • Writing HTML Documents (Document structure) • HTML writing tools • Create a HTML document • Container and Empty elements • HTML tag structure • Basic HTML tags - >HTML, HEAD, TITLE, BODY, Heading tags, Paragraph tag, Line Break tag, CENTER tag, Basefont and font tags, Font tag, Horizontal Rule, Comments • Logical and Physical Text styles • Special characters • Combining tags • Lists in HTML
ART	