

**ENGLISH COMMUNICATIVE COURSE  
SYLLABUS BREAKUP CLASS**

**X (2017 – 18) OBJECTIVES:**

- The overall aims of teaching English Communicative are:
- a) to enable the learner to communicate effectively and appropriately in real life situations.
  - b) to use English effectively for study for study purposes across the curriculum.
  - c) to develop and integrate the use of four language skill i.e- listening, speaking, reading and writing.
  - d) to develop interest in and appreciation of literature.
  - e) to revise and reinforce structures already learnt.
  - f) to express ideas in clear and grammatically correct English, using appropriate punctuation and cohesion devices.
  - g) to enable the students to understand, interpret , evaluate and respond to the following features in a literary text:
    - i. Character as revealed through appearance, background, actions, expressions, etc.
    - ii. Plot/ story/ theme, emerging through main events.
    - iii. Setting, as seen through time and place.
    - iv. Form.
  - h) to include a novel/ long reading text to encourage class room interaction, reduce teacher’s talking time, class discussion, etc.

**OBJECTIVES OF ASSESSMENT FOR LISTENING SKILL**

To enable learners :

- a) understand a range of genres and contexts of spoken English including academic, personal and social aspect.
- b) understand detailed information for a purpose.
- c) understand and interpret a range of features of the given context.
- d) understand the topic and the main points and also distinguish the main points from the details.

**OBJECTIVES OF ASSESSMENT FOR SPEAKING SKILL**

To enable the learners :

- a) express and respond to personal feelings and opinions.
- b) present oral reports or summaries; narrate incidents or events.
- c) present, adopt different strategies to convey ideas according to purpose, topic and audience, and to frame questions so as to elicit desired response.
- d) take part in group discussions, elicit views of others, express and argue a point of view clearly.
- e) participate in spontaneous spoken course. **TEXT BOOKS**

- 1) Interact in English – Literature Reader – A text book for English Course ( Communicative)
- 2) Interact in English – Workbook - – A text book for English Course ( Communicative)
- 3) Interact in English – Main Course Book - – A text book for English Course ( Communicative)
- 4) The Story of My Life – 1903 By Hellen Keller.

## **REFERENCE BOOKS**

1. BBC  
Oxford Communicative

Bijendra Book Company 2.  
Oxford University Press

## **MONTH WISE SYLLABUS BREAKUP**

### **APRIL: (21)**

- Two Gentlemen Of Verona ( Prose)
- Mirror ( Poem)
- Virtually True( Prose)
- Health & Medicine ( MCB)
- Determiners ( Grammar)
- Connectors ( Grammar)
- Novel :Chapters 1-3
- ASL – Listening Skills

### **MAY: (10)**

- Mrs. Packletide's Tiger ( Prose)
- Education ( MCB)
- Conditionals (Grammar)
- Novel: Chapters 4 – 6
- Speech (Writing)
- Debate (Writing)
- Avoiding Repetition (Grammar)
- Modals ( Grammar)
- Prepositions ( Grammar)
- Brochure( Writing)
- Itinerary ( Writing)
- Data Interpretation (Writing)

### **JULY: (23)**

- The Frog and The Nightingale ( Poem)
- The Dear Departed ( Play)
- Science ( MCB)
- Tenses ( Grammar)
- Subject Verb Agreement ( Grammar)
- Reported Speech ( Grammar)
  
- ASL : Speaking Skill

### **AUGUST:(24)**

- Not Marble Nor The Gilded Monuments (Poem)
- Patol Babu – Film Star( Prose)
- Environment (MCB)
- Travel & Tourism(MCB)
- Non Finites ( Grammar)
- Relatives ( Grammar)
- Novel : Chapters 10 -12

### **SEPTEMBER : (12)**

- The Letter( Prose)
- Novel: Chapters 13 – 14

### **OCTOBER : (18)**

- Snake ( Poem)
- The Rime of The Ancient Mariner (Poem)
- National Integration ( MCB)
- Comparisons ( Grammar)
- ASL – Listening Skills
- Novel :Chapters 15- 17.

### **NOVEMBER:(23)**

- A Shady Plot ( Prose)
- Julius Caesar( Play)
- Ozymandias ( Poem)
- Active & Passive Voice ( Grammar)
- Informal Letter
- E – mail
- Novel : Chapters 18 - 20

### **DECEMBER: (22)**

- Novel: Chapters 21-23
- Revision for Annual Examinations **JANUARY : (14)**
- Revision for Annual Examinations
- ASL

### **FEBRUARY:(22)**

- Revision for Annual Examinations
- Problem Solving Sessions

### **MARCH: (6)**

- Annual Examinations

## **EXAMINATION WISE SYLLABUS**

### **FIRST PERIODIC TEST : MAY 1, 2017**

□ Two Gentlemen Of Verona( Prose) □ Mirror ( Poem).

- Virtually True ( Prose)
- Health & Medicine ( MCB)
- Determiners ( Grammar)
- Connectors ( Grammar) **NOTE:**
- All formats taken up in the MCB units will be included in the syllabus.
- Grammar will be tested in an integrated manner.

### **MID TERM EXAMINATION BEGINS FROM SEPTEMBER 11, 2017.**

- The Frog and The Nightingale ( Poem)
- The Dear Departed ( Play)
- The Letter( Prose)
- Not Marble Nor The Gilded Monuments (Poem)
- Science ( MCB)
- Environment (MCB) □ Tenses ( Grammar)
- Subject Verb Agreement ( Grammar)
- Non Finites ( Grammar)
- Relatives ( Grammar)
- Reported Speech(Grammar)
- Novel : The Story Of My Life - Chapters 1 - 14 **NOTE:**
- The entire syllabus of First Periodic Test will be included in Mid Term Examinations.
- All formats taken up in the MCB units will be included in the syllabus.

- Grammar will be tested in an integrated manner.

**SECOND PERIODIC TEST: OCTOBER 30, 2017**

- Snake ( Poem)
- Ozymandias ( Poem)
- A Shady Plot( Prose)
- National Integration ( MCB)
- Comparisons ( Grammar)
- Tenses ( Grammar)
- Active & Passive Voice( Grammar) **NOTE:**
- All formats taken up in the MCB units will be included in the syllabus.
- Grammar will be tested in an integrated manner.

**ANNUAL EXAMINATIONS**

**100 % Syllabus OBJECTIVES:**

कक्षा - दसवीं  
विषय - हिन्दी

पाठ्यपुस्तक - स्पर्श भाग 2 - NCERT

संचयन भाग 2 - NCERT

व्याकरण प्रवेशक कक्षा IX & X (कोर्स बी) - सरस्वती हाउस प्रा० लि० अभ्यास

हेतु अतिरिक्त पुस्तकें -

1. Me 'N' Mine - CCE पद्धति पर आधारित Work-Sheets 2.

U-Like - मॉडल टैस्ट पेपर्स (अभ्यास कार्य प्रपत्र)

शिक्षण उद्देश्य -

- दैनिक जीवन में हिंदी में समझने-बोलने के साथ-साथ लिखने की क्षमता का विकास करना।
- हिंदी के किशोर साहित्य, अखबार व पत्रिकाओं को पढ़कर समझ पाना और उसका आनंद उठाने की क्षमता का विकास करना।
- औपचारिक विषयों और संदर्भों में बातचीत में भाग ले पाने की क्षमता का विकास करना।
- हिंदी के ज़रिए अपने अनुभव संसार को लिखकर सहज अभिव्यक्ति कर पाने में सक्षम बनाना।
- संचार के विभिन्न माध्यमों (प्रिंट और इलेक्ट्रॉनिक) में प्रयुक्त हिंदी के विभिन्न रूपों को समझने की योग्यता का विकास करना।
- कक्षा में बहुभाषिक, बहुसांस्कृतिक संदर्भों के प्रति संवेदनशील सकारात्मक सोच बनाना। □  
अपनी मातृभाषा और परिवेशगत भाषा को साथ रखकर हिंदी की संरचनाओं की समझ बनाना।

महीना	पाठ्य पुस्तक		व्याकरण
अप्रैल	स्पर्श- गद्य	बड़े भाई साहब	शब्द व पद, अशुद्धि शोधन
	स्पर्श- पद्य	कबीर (साखी)	
मई	संचयन	हरिहर काका	रचना के आधार पर वाक्य रूपांतर, समास, मुहावरे, सूचना लेखन, संवाद लेखन, विज्ञापन लेखन
जुलाई	स्पर्श - गद्य	डायरी का एक पन्ना	औपचारिक पत्र, अनुच्छेद
		ततारा वामीरो कथा	

स्पर्श- पद्य	मीरा के पद
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रचनात्मक अभिव्यक्ति - परियोजना कार्य

महीना	पाठ्य पुस्तक		व्याकरण
अगस्त	स्पर्श - गद्य	तीसरी कसम के शिल्पकार	अपठित गद्यांश, अपठित काव्यांश मुहावरे
	स्पर्श - पद्य	पर्वत प्रदेश में पावस तोप	
सितम्बर	पुनरावृत्ति तथा अर्द्धवार्षिक परीक्षा		
अक्टूबर	स्पर्श- गद्य	गिरगिट अब कहाँ दूसरों के दुख में दुखी होने वाले	
	स्पर्श- पद्य	बिहारी के दोहे	
नवम्बर	स्पर्श- गद्य	पतझड़ में टूटी पत्तियाँ	समास, रचना के आधार पर वाक्य रूपांतरण, अशुद्धि शोधन, मुहावरे
	स्पर्श - पद्य	मनुष्यता मधुर-मधुर मेरे दीपक जल	
	संचयन	सपनों के से दिन	
रचनात्मक अभिव्यक्ति - कविता वाचन			
दिसम्बर	स्पर्श - गद्य	कारतूस	औपचारिक पत्र, अनुच्छेद, संवाद लेखन, विज्ञापन लेखन, सूचना लेखन
	पद्य	कर चले हम फिदा आत्मत्राण	
	संचयन	टोपी शुक्ला	

जनवरी	पूर्व परिषद् परीक्षा तथा पुनरावृत्ति
मार्च	पुनरावृत्ति तथा वार्षिक परीक्षा

परीक्षा	पाठ्य पुस्तक		व्याकरण
सामयिक परीक्षा - I	स्पर्श - गद्य	बड़े भाई साहब	शब्द व पद, अशुद्धि शोधन, मुहावरे
	स्पर्श - पद्य	कबीर (साखी)	
अर्द्धवार्षिक परीक्षा	स्पर्श - गद्य	बड़े भाई साहब	शब्द व पद, समास, रचना के आधार पर वाक्य रूपांतरण, अशुद्धि शोधन, मुहावरे, औपचारिक पत्र, अनुच्छेद, अपठित काव्यांश, अपठित गद्यांश, सूचना लेखन, संवाद लेखन, विज्ञापन लेखन
		डायरी का पन्ना	
		तताँरा वामीरो कथा	
		तीसरी कसम के शिल्पकार	
	स्पर्श पद्य	कबीर (साखी)	
		मीरा के पद	
		पर्वत प्रदेश में पावस	
संचयन	हरिहर काका		
सामयिक परीक्षा - II	स्पर्श- गद्य	गिरगिट	शब्द व पद, समास, रचना के आधार पर वाक्य रूपांतर, अशुद्धि शोधन, मुहावरे
	स्पर्श - पद्य	बिहारी के दोहे	
	संचयन	सपनों के से दिन	

वार्षिक  
परीक्षा

शत-प्रतिशत् (संपूर्ण) पाठ्यक्रम

कक्षा - दशमी  
विषय - संस्कृत

पाठ्यपुस्तक	मणिका भाग - 2 अभ्यास पुस्तकम् भाग - 2	केन्द्रीय माध्यमिक शिक्षा बोर्ड
सहायक पुस्तक	Together with Sanskrit	रचना सागर

शिक्षण उद्देश्य -

- छात्रों को संस्कृत पठन, वाचन तथा विचारों की अभिव्यक्ति के लिए प्रेरित करना।
- विश्वबन्धुत्व की भावना को जागृत करना।
- श्लोकोच्चारण करना सिखाना।
- भारतीय संस्कृति से अवगत कराना। □ संस्कृत भाषा के महत्त्व का ज्ञान कराना।

मास	पाठ्य पुस्तक		अभ्यासपुस्तकम्
अप्रैल	पाठ-1	वाङ्मयं तपः	स्वरसन्धि - दीर्घः, गुणः, वृद्धिः
	पाठ-2	आज्ञा गुरुणां ह्यविचारणीया	अपठितअवबोधनम्, पत्रम्, अव्यय, समय
	सामयिक परीक्षा - I		
मई	पाठ-3	किं किं उपादेयम्	प्रत्यय - तव्यत्, अनीयर्
			चित्र वर्णनम्, अनुच्छेद लेखनम्
जुलाई	पाठ-4	नास्ति त्यागसमं सुखम्	व्यञ्जन सन्धिः - परसवर्ण, छत्व, तुकागमः
	पाठ-5	अभ्यासवशगं मनः	तद्धित प्रत्यय - मतुप्, इन्, ठक्
	विषय संवर्धनम् - परियोजना कार्यम्		



अगस्त	विसर्ग सन्धि, विसर्गस्य उत्त्वं, रत्वम्, अव्यय पदानि, वाच्यपरिवर्तनम्, समय
	समास - तत्पुरुषः, कर्मधारयः, द्विगुः
	अपठित अवबोधनम्, रचनात्मककार्यम्
सितम्बर	अर्द्धवार्षिक परीक्षा

मास	गाठ्य पुस्तक		अभ्यासपुस्तकम्
अक्तूबर	पाठ-6	साधुवृत्तिं समाचरेत्	
	पाठ-7	रमणीया हि सृष्टिरेषा	
नवम्बर			अपठित गद्यांश, पत्रम्
			स्वर सन्धि - यण्, अयादि, पूर्वरूप,
			व्यञ्जनसन्धि, विसर्ग सन्धि
			प्रत्यय - शतृ, शानच्, त्व, तल्, टाप्, डीप्
विषय संवर्धनम् - रचनात्मक कार्यम्			
दिसम्बर	पाठ-8	तिरुकुरल-सूक्ति - सौरभम्	अव्यय, संख्या, वचन - लिङ्ग, पुरुष, लकार दृष्ट्या संशोधनम्
	पाठ-9	राष्ट्रं संरक्ष्यमेव हि	
सामयिक परीक्षा - II			
जनवरी	पाठ-10	सुस्वागतं भो! अरुणाचलेऽस्मिन्	समास - द्वन्द्वः
	पाठ-11	कालोऽहम्	अपठित अवबोधनम्, रचनात्मककार्यम्
फरवरी			समास - बहुब्रीहिः समानाधिकरणम्
			अव्ययीभावः, चित्रवर्णनम्

पुनरावृत्ति

मार्च

वार्षिक परीक्षा

परीक्षा	पाठ्य पुस्तक		अभ्यासपुस्तकम्
सामयिक परीक्षा - I	पाठ-1	वाङ्मयं तपः	प्रत्यय - तव्यत्, अनीयर्, समय, अव्यय
	पाठ-2	आज्ञा गुरुणां ह्यविचारणीया	अपठित अवबोधनम्, चित्रवर्णनम्, स्वर सन्धि
अर्द्धवार्षिक परीक्षा	पाठ-1	वाङ्मयं तपः	अपठित अवबोधनम्, रचनात्मककार्यम् (पत्र, चित्र)
	पाठ-2	आज्ञा गुरुणां ह्यविचारणीया	सन्धि - स्वर, व्यंजन, विसर्ग
	पाठ-3	किं किं उपादेयम्	समास - तत्पुरुषः, कर्मधारयः, द्विगुः
	पाठ-4	नास्ति त्यागसमं सुखम्	प्रत्यय - तव्यत्, अनीयर्, मतुप्, इन्, ठक्
	पाठ-5	अभ्यासवशगं मनः	अव्ययपदानि - अपि से शनैः तक वाच्यपरिवर्तनम्, समय लेखनम्
सामयिक परीक्षा - II	पाठ-6	साधुवृत्तिं समाचरेत्	अपठित गद्यांश, पत्र, अव्यय, संख्या
	पाठ-7	रमणीया हि सृष्टिरेषा	स्वर सन्धि - यण्, पूर्वरूप प्रत्यय - शतृ, शानच्,
वार्षिक परीक्षा	शतृ-प्रतिशतृ (संपूर्ण) पाठ्य क्रम		

**SUBJECT: MATHEMATICS SESSION 2017-18**

The broad objectives of teaching of Mathematics at secondary stage are to help the learners to:

- consolidate the Mathematical knowledge and skills acquired at the upper primary stage;

- acquire knowledge and understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles and symbols and underlying processes and skills;
- develop mastery of basic algebraic skills;
- develop drawing skills;
- feel the flow of reason while proving a result or solving a problem;
- apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method;
- to develop positive ability to think, analyze and articulate logically;
- to develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of gender biases;
- to develop necessary skills to work with modern technological devices such as calculators, computers, etc.
- to develop interest in mathematics as a problem-solving tool in various fields for its beautiful structures and patterns, etc.
- to develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics;
- to develop interest in the subject by participating in related competitions; • to acquaint students with different aspects of mathematics used in daily life;
- to develop an interest in students to study mathematics as a discipline.

#### **REFERENCE BOOKS:**

#### **Author**

**1 ABD's QUESTIONS FOR REVISION IN MATHEMATICS  
LIKE CBSE CCE SAMPLE PAPERS  
CH-3. Pair of Linear Equations in Two Variables**

**P.K. Garg 2 U-  
..... APRIL**

Introduction  
Pair of Linear Equations In two Variables  
Graphical Method of Solution of a Pair of Linear Equations  
Algebraic methods of Solving a Pair of Linear Equations  
Equations Reducible to a Pair of Linear Equations in Two variables  
Summary

#### **CH-2 . Polynomials**

Introduction  
Geometrical Meaning of the Zeroes of a Polynomial Relationship between  
Zeroes and Coefficients of a Polynomial Division  
Algorithm for Polynomials  
Summary

Lab Manual Activities 1 -3

## **MAY**

### **CH 14-Statistics**

Introduction  
Mean of Grouped Data Mode of  
Grouped Data Median of Grouped  
Data  
Graphical Representation of Cumulative Frequency Distribution Summary

### **CH 1-Real Number**

Introduction  
Euclid's Division Lemma  
The fundamental Theorem Of Arithmetic

### **JULY CH 1- Real Number**

Revisiting Irrational Numbers  
Revisiting Rational Numbers and Their Decimal Expansions  
Summary

### **CH 8-Introduction to Trigonometry**

Introduction  
Trigonometric Ratios  
Trigonometric Ratios of Some Specific Angles  
Trigonometric Ratios of Complementary Angles  
Trigonometric Identities  
Summary

### **CH 6-Triangles**

Introduction  
Similar Figures Similarity Of  
Triangles

## **AUGUST**

### **CH 6-Triangles**

Criteria for Similarity of Triangles  
Pythagoras Theorem  
Summary

Lab Manual Activities 4-6

## **SEPTEMBER**

Revision for Mid Term Examination  
Mid Term Examination

## **CH 4- Quadratic Equations**

Introduction  
Quadratic Equations  
Solution of quadratic Equation by Factorisation  
Solution of Quadratic Equation by Completing The square  
Nature of Roots  
Summary

### **OCTOBER**

## **CH 5-Arithmetic Progressions**

Introduction  
Arithmetic Progressions Nth  
Term of an AP Summary

Lab Manual Activities 7-9

### **NOVEMBER**

## **CH 9- Some Applications of Trigonometry**

Introduction  
Heights and Distances  
Summary

## **CH 7-Coordinate Geometry**

Introduction  
Distance  
Formula  
Section  
Formula Area of  
Triangle  
Summary

### **DECEMBER**

## **CH 11-Constructions**

Introduction  
Division of a Line Segment  
Construction of Tangents to a  
Circle Summary

## **CH 15-Probability**

Introduction  
Probability-A Theoretical Approach  
Summary

## **CH 13-Surface Area and Volumes**

Introduction  
Surface Area of a Combination of Solids  
Volume of a Combination of Solids  
Conversion of Solid from One Shape to Another  
Frustum of a Cone  
Summary

## **JANUARY CH 10Circles**

Introduction  
Tangent to a Circle  
Number of Tangents from a Point on a Circle  
Summary

Lab Manual Activities 10-12

## **CH 12-Areas Related to Circles**

Introduction  
Perimeter and Area of Circle-A Review Areas of  
Sector and Segment of a Circle Areas of  
Combination of Plane Figures Summary

## **FEBRUARY**

Revision of whole syllabus

## **EXAM WISE SYLLABUS BREAK UP PERIODIC TEST**

**I:**

1. CHAPTER-2(Polynomials)
2. CHAPTER-3(Pair of Linear Equations)

## **MID TERM EXAMINATION:**

1. CHAPTER-1(Real Numbers)
2. CHAPTER-2(Polynomials)
3. CHAPTER-3(Pair of Linear Equations)
4. CHAPTER-6(Triangles)
5. CHAPTER-8(Introduction to Trigonometry)
6. CHAPTER-14(Statistics)

## **PERIODIC TEST II:**

1. CHAPTER-4(Quadratic Equations)
2. CHAPTER-5(Arithmetic Progression)

## **ANNUAL EXAMINATION : FULL SYLLABUS**

### **SYLLABUS BREAK UP for SESSION: (2017-2018) CLASS : X (SUBJECT : SCIENCE)**

#### **COURSE BOOK :**

1. Science - Textbook for class IX - NCERT Publication
2. Laboratory Manual(Science)-Class IX ( Together With Science)

#### **REFERENCE BOOKS**

1. Super Simplified Science (Biology) for class 10 by K.N Bhatia and C.S Mishra
2. Exam Idea (Science)
3. Chemistry for class 10 by Lakhmir Singh & Manjeet Kaur

**Science is a body of knowledge based on experiment, observation and inference, which is judgment based on evidence. Through science teaching, children are required to develop certain scientific ways of thinking as they work. The subject of science plays an important role in developing well-defined abilities in cognitive, affective and psychomotor domains in children. It augments the spirit of enquiry, creativity, objectivity and aesthetic sensibility.**

#### **OBJECTIVES**

Science teaching aims to realise the following general objectives. It enables the learners to

- know the facts and principles of science and its applications, consistent with the stage of cognitive development.
- acquire the skills and understand the methods and processes that lead to generation and validation of scientific knowledge.
- develop intellectual and practical scientific skills.
- motivate to apply basic scientific principles in all sciences.
- acquire knowledge about health, environment and safety practices and behave accordingly.
- realise that some natural resources can be depleted and make them aware of the role of science in sustaining these resources.
- use scientific knowledge and skills in novel situations especially in everyday life.
- emphasize the role of scientists in the advancement of human kind.
- develop scientific curiosity and orientation toward scientific research.
- work independently and cooperatively in solving scientific problems.

#### **MONTHWISE SYLLABUS BREAKUP**

#### **APRIL**

#### **PHYSICS Chapter 12 : Electricity**

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.

#### **LAB ACTIVITIES**

1. To study the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plot a graph between V and I.

**BIOLOGY** Chapter 6 : **Life processes**

"Living Being". Basic concept of nutrition.

LAB ACTIVITIES

1. To prepare a temporary mount of a leaf peel to show stomata.

**CHEMISTRY** Chapter 1 : **Chemical Reactions and Equations**

Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions : combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.

LAB ACTIVITIES

1. To perform and observe the following reactions and classify them into:
  - I. Combination reaction
  - II. Decomposition reaction
  - III. Displacement reaction
  - IV. Double displacement reaction
    - a. Action of water on quick lime
    - b. Action of heat on ferrous sulphate crystals
    - c. Iron nails kept in copper sulphate solution
    - d. Reaction between sodium sulphate and barium chloride solutions

**MAY**

**PHYSICS** Chapter 12 : **Electricity** (contd..)

Heating effect of Electric current and its applications in daily life. Electric Power, Inter relation between P, V, I and R.

Chapter. 13: **Magnetic effects of Current**

Magnetic field, field lines, field due to a current carrying conductor,

LAB ACTIVITIES

2. To determine the equivalent resistance of two resistors when connected in series.

**BIOLOGY** Chapter 6 : **Life processes**

Respiration, transportation in animals.

LAB ACTIVITIES

1. To prepare a temporary mount of a leaf peel to show stomata.

**CHEMISTRY** Chapter 2 : **Acids, Bases and Salts**

Definitions of acids and bases, general properties, examples and uses. Concept of pH scale importance of pH in everyday life; preparation and uses of sodium hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.

LAB ACTIVITIES

2. To study the properties of acids and bases (HCl & NaOH) by their reaction with:
  - I. Litmus solution (Blue/Red)
  - II. Zinc metal
  - III. Solid sodium carbonate
3. To find the pH of the following samples by using pH paper/universal indicator:
  - I. Dilute Hydrochloric Acid
  - II. Dilute NaOH solution



- III. Dilute Ethanoic Acid solution
- IV. Lemon juice
- V. Water
- VI. Dilute Hydrogen carbonate solution

## JULY

**PHYSICS** Chapter. 13 **Magnetic effects of Current** (Contd.) field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's left hand rule. Electro magnetic 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. LAB

### ACTIVITIES

3. To determine the equivalent resistance of two resistors when connected in parallel.

**BIOLOGY** Chapter 6 : **Life processes** (contd...)  
Transport in plants, excretion in plants and animals.

### Chapter 7 : **Control and co-ordination**

Control and co-ordination in animals : nervous system; voluntary, involuntary and reflex action.

### LAB ACTIVITIES

2. To show experimentally that carbon dioxide is given out during respiration.

## **CHEMISTRY** Chapter 3: **Metals and Non-Metals**

Properties of metals and non-metals, reactivity series, formation and Properties of ionic compounds

### LAB ACTIVITIES

4. i) To observe the action of Zn, Fe, Cu and Al metals on the following salt solutions:

a.  $\text{ZnSO}_4$  (aq)

b.  $\text{FeSO}_4$  (aq)

c.  $\text{CuSO}_4$  (aq)

d.  $\text{Al}_2(\text{SO}_4)_3$  (aq)    ii) Arrange Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

## AUGUST

### **PHYSICS** Chapter. 14 **Sources of Energy**

Different forms of energy, conventional and non-conventional sources of energy: fossil fuels, solar energy; biogas; wind, water and tidal energy; nuclear energy. Renewable versus non-renewable sources. LAB

### ACTIVITIES

4. To trace the path of a ray of light passing through a rectangular **glass slab** for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

### **BIOLOGY** Chapter 7: **Control and co-ordination** (contd...)

Tropic movements in plants; Introduction to plant hormones; chemical coordination: animal hormones.

## Chapter 15: **Our environment**

Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.

## **CHEMISTRY** Chapter 3 : **Metals and Non-Metals**

Basic metallurgical processes, corrosion and its prevention.

### LAB ACTIVITIES

4. i) To observe the action of Zn, Fe, Cu and Al metals on the following salt solutions:

- a.  $\text{ZnSO}_4$  (aq)
- b.  $\text{FeSO}_4$  (aq)
- c.  $\text{CuSO}_4$  (aq)
- d.  $\text{Al}_2(\text{SO}_4)_3$  (aq) ii) Arrange Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based

on the above result.

## **SEPTEMBER**

### **Revision for Midterm Examination**

## **OCTOBER**

### **PHYSICS** Chapter 10 : **Light - Reflection of Light and Refraction**

Reflection of light at curved surfaces, Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length. Mirror Formula (Derivation not required), Magnification.

### LAB ACTIVITIES

5. To determine the focal length of i) Concave mirror ii) Convex lens, by obtaining the image of a distant object.

### **BIOLOGY** Chapter 8 : **How do organisms reproduce?**

Reproduction and its importance in animals and plants, basic mechanism, types of reproduction, mode of asexual reproduction in organisms, reproduction in plants, sexual reproduction in animals, LAB ACTIVITIES

3. To study (a) binary fission in Amoeba, and (b) budding in yeast with the help of prepared slides.

### **CHEMISTRY** Chapter 4 : **Carbon and its compounds**

Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series

### LAB ACTIVITIES

5. To study the following properties of acetic acid (ethanoic acid) :

- I. odour
- II. solubility in water
- III. effect on litmus
- IV. reaction with sodium bicarbonate

## NOVEMBER

### PHYSICS Chapter. 10 **Light - Reflection of Light and Refraction**

Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens;

#### LAB ACTIVITIES

6. To trace the path of the rays of light through a **glass prism**.

### BIOLOGY Chapter 8 : **How do organisms reproduce?** (contd...)

Reproductive systems in humans, reproductive health-need for and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women's health.

### Chapter 9 : **Heredity and Evolution**

Heredity; Mendel's contribution- Laws for inheritance of traits, sex determination: brief introduction. LAB

#### ACTIVITIES

4. To identify the different parts of an embryo of a dicot seed ( Pea, gram or red kidney bean).

### CHEMISTRY Chapter 4 : **Carbon and its compounds**

Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation)

#### LAB ACTIVITIES

6. To study the comparative cleaning capacity of a sample of soap in soft and hard Water.

## DECEMBER

### PHYSICS Chapter 10 : **Light - Reflection of Light and Refraction** (Contd..)

### Chapter Ch. 11 **The Human Eye and the Colourful World**

Functioning of a lens in human eye, defects of vision and their corrections, Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.

#### LAB ACTIVITIES

7. To find the image distance for varying object distance in case of convex lens and draw corresponding ray diagrams to show image is formed.

### BIOLOGY Chapter 9 : **Heredity and Evolution(contd...)**

Basic concepts of evolution-speciation, evidences to support evolution, human evolution.

### Chapter 16 : **Management of natural resources.**

Conservation and judicious use of natural resources, forest and wild life, coal and petroleum conservation. Examples of people's participation for conservation of natural resources.

### CHEMISTRY Chapter 4 : **Carbon and its compounds (Contd.)**

Chemical properties of carbon compounds (addition and substitution reaction).

Ethanol and Ethanoic acid (only properties and uses), soaps and detergents

#### LAB ACTIVITIES

6.To study the comparative cleaning capacity of a sample of soap in soft and hard Water.

## **JANUARY**

### **PHYSICS**

Chapter. 11 : **Light-III The Human Eye and the Colourful World**

Applications of refraction of light, dispersion of light, scattering of light in daily life.

**BIOLOGY** Chapter 16 : **Management of natural resources**

Regional environment : Big dams : advantages and limitations; alternatives, if any. Water harvesting. Sustainability of natural resources. Regional environment : Big dams : advantages and limitations; alternatives, if any. Water harvesting. Sustainability of natural resources.

**CHEMISTRY** Chapter 5 : **Periodic Classification of Elements**

Need for classification, Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties

**FEBRUARY** Revision for Board Examination

**MARCH** REVISION FOR BOARD EXAMS

## **EXAMWISE SYLLABUS BREAKUP**

### **PERIODIC TEST I** (paper 6)

Chapter 6 : Life processes (till transportation in animals)

Chapter 1 : Chemical Reactions and Equations

Chapter 12 : Electricity (till NCERT pg. 209)

### **MIDTERM EXAMS**

Chapter 1 : Chemical Reactions and Equations

Chapter 2 : Acids, Bases and Salts

Chapter 3 : Metals and Non-Metals

Chapter 6 : Life processes

Chapter 7 : Control and co-ordination

Chapter 15 : Our environment

Chapter 12 : Electricity

Chapter 13 : Magnetic effects of Current

Chapter 14 : Sources of Energy

### **PERIODIC TEST II** (paper 6)

Chapter 4 : Carbon and its compounds (till nomenclature, saturated & hydrocarbons)

Chapter 8 : How do organisms reproduce?

Chapter 10 : Light - Reflection of Light and Refraction (till NCERT Pg.170)

### **PREBOARD EXAMS**

Chapter 1 : Chemical Reactions and Equations

Chapter 2 : Acids, Bases and Salts

Chapter 3 : Metals and Non-Metals  
Chapter 4 : Carbon and its compounds  
Chapter 5 : Periodic Classification of Elements  
Chapter 6 : Life processes  
Chapter 7 : Control and co-ordination  
Chapter 8 : How do organisms reproduce?  
Chapter 9 : Heredity and Evolution  
Chapter 15 : Our environment  
Chapter 16 : Management of natural resources  
Chapter 12 : Electricity  
Chapter 13 : Magnetic effects of Current  
Chapter 14 : Sources of Energy  
Chapter 10 : Light - Reflection of Light and Refraction  
Chapter 11 : The Human Eye and the Colourful World

**LAB ACTIVITIES** :- ALL

**ANNUAL EXAMINATION: FULL SYLLABUS**

**EXAM WISE SYLLABUS BREAK UP****SUBJECT: SOCIAL****SCIENCE (2017-2018)****CLASS-X First Unit Test**

History Chapter-1-The rise of Nationalism in Europe.

Political Sc. Chapter-1-Power Sharing

Economics Chapter-1 The Story of Development

Geography Chapter-1 Resources and Development

**Term I**

History Chapter-1- The rise of Nationalism in Europe.

Chapter-3- Nationalism in India.

Political Sc. Chapter-1-Power Sharing

Chapter-2 Federalism

Chapter-3 Democracy &amp; Diversity

Chapter-4-Gender, Religion and Caste

Economics Chapter 1- The Story of Development

Chapter-2 The Role of Service Sector in Indian

Economy

Geography Chapter-1- Resources and Development

Chapter-2 – Forest &amp; Wildlife Resources

Chapter-3- Water Resources

Chapter-4- Agriculture

**Second Unit Test**

History Chapter-5 – The age of Industrialisation.

Political Sc. Chapter-5- Popular Struggle and Movements

Economics Chapter-3- Money and Financial Systems

Geography Chapter-5-Mineral Resources and Energy Resources

**Annual Examination**

Full syllabus

**MONTHWISE SYLLABUS BREAK UP SOCIAL SCIENCE Objective:-**

To develop an understanding of the process of change and development-both in terms of time and space, through which human societies have evolved.

To develop an understanding of contemporary India with its historical perspective, of the basic framework of the goals and policies of national development to in independent India, and of the process of change with appropriate connections to world development.

To deepen knowledge about and understanding of India's freedom struggle and of the values and ideals that it represented and to develop an appreciation of the contributions made by people of all sections and regions and country.

To help learners understand and cherish the values enshrined in the Indian Constitution and to prepare them for their roles and responsibilities as effective citizens of a democratic society.

To deepen the knowledge and understanding of India's environment in its totality, their interactive processes and effects on the future quality of people's lives.

**TEXT BOOKS:-**

India and the contemporary World-II

□□

□□ India Resources and their Development

□□ Democratic Politics-II

□□ Understanding Economic Development-II'

□□ Disaster Management-only through Project Work and Assignment

**REFERENCE BOOKS:-**

NAME AUTHOR

□□ Xam Idea - V.K. Global Publications Pvt. Ltd.

□□ Me'n' Mine - Saraswati House Pvt. Ltd.

**APRIL:-**

History:- The rise of Nationalism in Europe.

Political Sc.:- Power Sharing

Economics:- The Story of Development

Geography:- Resources and Development

**MAY:-**

History:- The rise of Nationalism in Europe.

Political Sc. :- Federalism

Geography: Resources & Development

Chapter- Forest & Wildlife Resources

**JULY:-**

History: The rise of Nationalism in Europe.

Political Sc:- Democracy and Diversity

Economics:- The Role of Service Sector in Indian Economy

Geography: - Water Resources and chapter-4 Agriculture

**AUGUST:-**

History – Nationalism in India.

Political Sc.:- Gender, Religion and Caste

Geography: - Agriculture, Chapter-5 Minerals and energy resources

**SEPTEMBER:-**

History – Nationalism in India.

Geography:- Chapter-5 (cont.)

Economics- Money and Financial Syster

**OCTOBER**

History:- The age of Industrialization.

Political Science:- Popular Struggles and Movements

Economics:- Money and Financial System (contd.)

Geography- Mineral Resources and Energy Resources

Chapter-6-Manufacturing Industries

**NOVEMBER:-**

History:- The age of Industrialization.

Political Science:- Political Parties

Economics:- Globalisation

Geography- Chapter-6 (contd.)

**DECEMBER**

History:- The age of Industrialization.

Political Science:- Outcomes of Democracy

Economics:- Globalisation

Geography:- Lifelines of National Economy

**JANUARY**

History:- Print culture and the modern world.

Economics:- Consumer Awareness

Political Sc:- Challenges of Democracy

Geography: Chapter-7 (contd.)

**FEBURARY**

Print culture and the modern world.

Revision

Sample papers (CBSE)

**MARCH:-**

Full Syllabus

Annual Examination.



**SYLLABUS PLANNING CLASS X**  
**SESSION: 2017-2018**  
**MONTHWISE SYLLABUS BREAKUP**  
**FOUNDATION OF INFORMATION TECHNOLOGY (CODE –165)**

**OBJECTIVES:**

Learning Outcomes:

- Understanding organization of a computer system and networking.
- Basic understanding of database design.
- Ability to work on office tools such as word processor, spreadsheet and presentation.
- Ability to apply knowledge and practice on office tools to develop IT applications.
- Ability to use Indian languages in developing an IT application.
- Ability to design HTML webpage.
- Appreciation/awareness of societal impacts of information technology in business. Public services, education, health etc.
- Awareness of basic information security issues

**TEXT BOOKS:**

<b>Name</b>	<b>Author IT Tools -</b>
<b>Foundation of Information Technology KIPS Publications</b>	<b>Term Wise Syllabus</b>

**MONTH WISE SYLLABUS**

<b>Month</b>	<b>April &amp; May</b>
<b>Theory</b>	
<b>Unit II :</b>	<b>Information Processing Tools</b>
<b>Topics</b>	<b>Database Management Tool: Basic Concepts and need for a database, Creating a database, DataTypes-Text, Number, Date, Time, Setting the Primary Key, Entering data into a database, Inserting and deleting Fields, Inserting and deleting Records, FieldSize, Default Value, Creating Query using Design view.</b>
<b>Chapters Covered</b>	<b>Chapter 3 : OpenOffice.org Base Chapter 4: Working With Tables Chapter 5 : Query in Base</b>
<b>PRACTICAL SKILLS</b>	<b>Database Design:*</b> <ul style="list-style-type: none"> <li>• Creating and entering data into a database</li> <li>• Setting the primary key</li> <li>• Inserting meaningful data and organising</li> <li>• Creating Query with the same design view of the table.</li> </ul> <b>Practical File – 5 Database Solutions</b>
<b>Month</b>	<b>July</b>
<b>Theory</b>	
<b>Unit I :</b>	<b>Basics of Information Technology</b>

<b>Topics</b>	<b>Internet: World Wide Web, Web servers, Web Clients, Web sites, Web Pages, WebBrowsers, Blogs, News groups, HTML, Web address, E-mail address, URL, HTTP, FTP, downloading and uploading files from remote site; Services available on Internet: Information Retrieval, Locating sites using search engines and finding people on the net; Web Services: Chat, email, Video Conferencing, e-Learning, e-Banking, e-shopping, eReservation, e-Governance, e-Groups, Social Networking.</b>
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<b>Chapters Covered</b>	<b>Chapter 1 : Internet Chapter 2: Internet Services</b>
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<b>PRACTICAL SKILLS</b>	-
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<b>Month</b>	<b>August</b>
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<b>Theory</b>	
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<b>Unit II :</b>	<b>Information Processing Tools Office Tools - Information Representation Methods (HTML)</b>
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<b>Topics</b>	<b>Introduction to Web Page Designing using HTML, Creating and saving an HTML document, accessing a web page using a web browser (Google Chrome, Internet Explorer, Mozilla Firefox, Opera, Apple Safari, Net scape Navigator); Elements in HTML: Container and Empty elements, Designing web pages using the following elements: HTML, HEAD, TITLE, BODY (Attributes: BACKGROUND, BGCOLOR, TEXT, LINK, ALINK, VLINK, LEFTMARGIN, TOPMARGIN), FONT (Attributes: COLOR, SIZE, FACE), BASEFONT (Attributes: COLOR, SIZE, FACE), CENTER, BR (Break), HR (Horizontal Rule, Attributes: SIZE, WIDTH, ALIGN, NOSHADE, COLOR) inserting comments, H1..H6 (Heading), P (Paragraph), B (Bold), I (Italics), U (Underline), UL &amp; OL (Unordered List &amp; Ordered List Attributes: TYPE, START), LI (List Item), Insertion of images using the element IMG (Attributes: SRC, WIDTH, HEIGHT, ALT, ALIGN), Super Script SUP, Subscript SUB</b>
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<b>Chapters Covered</b>	<b>Chapter 6 : Understanding HTML Chapter 7: Using List and Images in HTML</b>
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<b>PRACTICAL SKILLS</b>	<b>Webpage Designing * • Adding a title to webpage • Formatting Text • Adding Ordered/Unordered Lists • Writing Text in Paragraphs • Inserting Image 5 HTML source code along with browser view</b>
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<b>Month</b>	<b>September</b>
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<b>Theory</b>	
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<b>Unit II :</b>	<b>Information Processing Tools Office Tools - Information Representation Methods (HTML)</b>
<b>Topics</b>	<b>Creating Table using the element TABLE (BACKGROUND, BGCOLOR, WIDTH, CELSPACING, CELLPADDING, BORDER), TR, TH, TD, ROWSPAN, COLSPAN, Internal and External Linking between Web Pages: Significance of linking, A - Anchor Element (Attributes: NAME, HREF, TITLE, MAILTO).</b>
<b>Chapters Covered</b>	<b>Chapter 8 : Links, Anchors and Tables in HTML</b>
<b>PRACTICAL SKILLS</b>	<b>Webpage Designing * • Adding content in Tabular Form</b>
	<b>• Adding Internal / External links. The students are supposed to know the tools and style for designing domainspecific web pages from real life applications and the topics mentioned in the syllabus. 3 HTML source code along with browser view PROJECT-WORK</b>
<b>Month</b>	<b>October</b>
<b>Theory</b>	
<b>Unit II :</b>	<b>Information Processing Tools Office Tools - Information Representation Methods (XML)</b>
<b>Topics</b>	<b>Introduction to XML, Difference between XML and HTML with respect to the following: Data separation, data sharing, document structure, tags, nesting of elements, attributes, values. XML Elements - Defining own tags in XML, root elements, child elements and their attributes; Comments in XML, White space and new line in XML, well formed XML documents, validating XML documents, XML Parser, Viewing XML documents in a web browser.</b>
<b>Chapters Covered</b>	<b>Chapter 9 : XML</b>
<b>PRACTICAL SKILLS</b>	<b>create an XML document on the lines of XML concepts covered in theory syllabus. 2 XML Documents Source Code and View</b>
<b>Month</b>	<b>November</b>
<b>Theory</b>	
<b>Unit III :</b>	<b>Societal Impacts of IT</b>

<b>Topics</b>	<b>Information Security: Virus, Worms, Trojans and Anti-Virus Software, Spyware, Malware, Spams, Data Backup and recovery tools and methods, Online Backups, Hacker and Cracker with regard to Computer Data and Applications, Social Networking Information security provisions in e-commerce, Benefits of ICT in Education, Healthcare, Governance, Virtual, School, emergence of Knowledge economy, Impact of ICT on Society: Knowledge based society, Infomania, Digital Unity and Digital Divide.</b>
<b>Chapters Covered</b>	<b>Chapter 10: Societal Impacts of IT</b>
<b>PRACTICAL SKILLS</b>	<b>Project Work (Unit IV – IT Applications)</b>
<b>Month</b>	<b>December</b>
<b>Theory</b>	
<b>Unit IV :</b>	<b>IT Applications</b>
<b>Topics</b>	<b>Project Work</b>
<b>Chapters Covered</b>	<b>Revision for Preboard and Sample paper practice</b>
<b>PRACTICAL SKILLS</b>	<b>Project Work (Unit IV – IT Applications)</b>

**Term wise Syllabus breakup**

<b>Periodic -1</b>	<b>Chapter 3,4,5</b>
<b>Mid term</b>	<b>Chapter 1 to 7</b>
<b>Periodic- 2</b>	<b>Chapter 8,9</b>
<b>Pre Board Examination</b>	<b>Full Syllabus</b>