

Syllabus for Class X for the year 2011-12

ENGLISH

As per the board circular the lessons have changes. The Syllabus will be determined by the board.

MATHS

SA I

Concept — Number System
Topic — Real Numbers

Concept — Algebra
Topic — a) Polynomials
b) Pair of Linear equations in two variables

Concept — Geometry
Topic a) Triangles

Concept — Trigonometry
Topic — a) Introduction to Trigonometry
b) Trigonometric Identities

Concept — Statistics
Topic — a) Mean; Median Mode
b) Cumulative Frequency Graph

SA II

Concept — Algebra
Topic — a) Quadratic Equations
b) Arithmetic Progression

Concept — Geometry
Topic — a) Circles
b) Constructions

Concept — Mensuration
Topic — a) Area Related to Circles
b) Surface Areas and Volumes

Concept — Trigonometry
Topic — Heights and Distances

Concept — Probability
Topic — a) Coordinate Geometry
b) Probability

SOCIAL STUDIES

HISTORY

S A I

- Concept
Topic
- Development of technology and its impact on urban life.
 - 1. Work, Life and Leisure.(FA I)
 - 2.Print Culture and Nationalisation.(FA II)

S A II

- Concept
Topic
- Nationalism and mass movements
 - 3. Nationalist Movement in indo - China. (FA III)
 - 4. Nationalism in India.(FA IV)

GEOGRAPHY

S A I

- Concept
Topic
- Resources and their utilisation
 - Ch - 1 Resource and Development
 - Ch - 2 forest and Wildlife
 - Ch - 3 Water Resources
 - Ch - 4 Agriculture

S A II

- Concept
Topic
- How resources are useful to us?
 - Ch - 5 Mineral and Energy Resources
 - Ch - 6 Manufacturing Industries
 - Ch - 7 Lifelines of National Economy.

ECONOMICS

S A I

- Concept
- a) Classification of countries on the basis of per capital income.
 - b) Human development index
 - c) Sustainable economic development
 - d) Economic and non-economic activities.
 - e) Difference between eco growth and development
 - f) Different types of economies – capitalist, socialist, mixed
 - g) Difference between developed and developing countries
 - h) GOP, GNP, NNP, NI, NDP, P,C income – eco aggregates

- Topic
Concept
- Development
 - a) On the basis of productive activity. – primary, secondary, tertiary
 - b) Problem of double counting
 - c) Organised and un organized.
 - d) On the basis of habitation – rural and urban
 - e) On the basis of ownership – public and private sector.

f) Role of service sector in Indian economy and their importance.

S A II

Concept — a) Medium of exchange.
b) Deposits with bank.
c) Loan activities
d) Terms of credit
e) Formal and informal sector credit
f) Self help group(SHG)

Topic — Money and Credit

Concept — a) Multinationals (MNC)
b) Foreign Investment
c) Foreign trade and integration of markets.
d) Globalisation – factors
e) The impact of globalisation
f) Struggle for fair globalisation

Topic — Globalisation and the Indian Economy

Concept — a) Consumer movement
b) Consumer Rights and duties
c) Legislative, administrative and technical measures.

Topic — Consumer Rights

CIVICS

S A I

Concept — Accomodation and resolution of conflict
Topic — Ch - 1 Power Sharing

Concept — Decentralization of power
Topic — Ch - 2 Federalism

Concept — Hospitality to a multitude of ideas
Topic — Ch - 3 Democracy and Diversity

Concept — Conflict, co-operation and integration
Topic — Ch - 4 Gender, Religion and Caste

S A II

Concept — Power of the people
Topic — Ch - 5 Popular Struggles and Movements

Concept — Indirect democracy

- Topic — Ch – 6 Political Parties
- Concept — Expectations of the people from popular government
Topic — Ch – 7 Outcomes of Democracy
- Concept — Overcoming hurdles
Topic — Ch – 8 Challenges to Democracy

BIOLOGY

S A I

Reproduction: Chapter – 1

- Concept — Different modes of nutrition, photosynthesis, digestion, absorption
Topic — Nutrition
- Concept — Different respiratory organs, aerobic, anaerobic modes of respiration, reactions, products, mechanism
Topic — Respiration
- Concept — Transport mechanism in plants and animals, cardiac cycle.
Topic — Circulation
- Concept — Excretory products, organs
Topic — Excretion
- Concept — Physical and chemical co – ordination, nervous system and endocrine system
Topic — Ch – 2 Control and Coordination in Plants and Animals

S A II

- Concept — Different modes of reproduction in plants and animals, Sexual reproduction in flowering plant and human reproduction in detail
Topic — Reproduction: Chapter – 1
- Concept — ❖Mendelian inheritance, laws, structure of chromosome, DNA
Origin of life, evidences and theories of evolution.
Topic — Ch – 2 Heredity and Evolution
- Concept — Types of resources, judicious use, conservation
Topic — Ch – 3 Natural Resources

Concept — Energy flow unidirectional , 10% low, ecosystem, ecological balance
Topic — Ch - 4 Environment

PHYSICS

SA I

CONCEPT : Effects of current

TOPIC : 1. Electricity
 2. Magnetic effects of currents

CONCEPT : Natural Resources

TOPIC : 1. Sources of Energy

SA II

CONCEPT : Natural Phenomena

TOPIC : 1. Light – Reflection and Refraction

CONCEPT : Organ that help us to perceive natural phenomena

TOPIC : 1. Human Eye and Colourful World

CHEMISTRY

SA I

CONCEPT : Chemical Substances

TOPIC : 1. Chemical Reactions
 2. Acids, bases & salts
 3. Metals & Non- Metals

SA II

CONCEPT : Chemical Substances

TOPIC : 1. Carbon Compounds
 2. Periodic classification of elements

BENGALI 2ND LANGUAGE

SA I

- Read** — Comprehension
- Writing Section — Leave application, Paragraph Writing
- Grammar — Sandhi – Barjan (Sanskrit & Bengali)
Samas (Danda, Abyaibhav, Karmodharay)
Punctuation
- Concept — Reading & Writing & Spelling Learning
- Prose**
- Topic — Ghar o Bahir, Mahesh
- Poetry**
- Topic — Annapurna O Ishwari Patni, Kandari Husiwar
- Rapid Reader**
- Topic — Rajkahini – Shiladitya, Goho

SA II

- Composition — Comprehension, Story Writing, Report writing, Notice
- Grammar — Sandhi, Bisarga (Sanskrit and Bangla), Sadhu o Chalit Bhasha, Sabdogato Asuddhi, Transformation of sentences, Ek Shabder tinti bhinno arthe prayog
- Prose**
- Concept** — Reading, Writing and meaning
- Topic — Bhagirathir Uthso Sandhane, Vidya Sagar, Palli Sahitya
- Poetry**
- Topic — Bibhishaner Prati Indrajit, Dui Bigha Jami, Chhatradhara, Chheler Dal
- Rapid Reader**
- Topic** — Padmini, Hambirer Rajotyo Labh

HINDI 2ND LANGUAGE

S A I

- Prose**
- Concept — Knowledge of the language, Reading skill. Meaning, spelling
- Topic — Netaji Ka Chasma
Bal Govin Bhagat
Lakhnoi Andaz

Poetry

- Concept — Rhyme scheme, gist and theme to know the poets and their work
- Topic — Surdas
Dev
Atmokathay
Utsah
At Nehi Rahi (Nirala)

Rapid Reader

- Topic — Maata Ka Anchal
George Panchan Ki Nak

GRAMMAR

- Composition** — Language skill, Sentence construction
- Grammar** — Verb, Adjective, Adverb (with their kinds)

S A II**Prose**

- Concept — Reading and Writing skill, understand the language through literature
- Topic — Manviya Karuna Ki Divya Chamak
Stri Shikshake Wrodhi Kutroko Khandan
Naubat Khane Me Ibadat
Sanskriti

Poetry

- Concept — Rhyme scheme, Verse formation
- Topic — Ram, Lakshman, Parshuram Sambad
Fashal Danturit Muskan
Chhaya Mat Chhuna
Sangat Kar****

Rapid Reader

- Topic — Sana Sana Haath Jodi
Aihi Thaiya Jhulni Harani Ho Rama
Main Kyo Likhta Hu

GRAMMAR

- Composition** — Better Sentence, Construction and Knowledge of language
- Grammar** — Pad Parichay
Bakkya
Bachya
Alankar

In both term SA I and SA II Neebandh , Patra, Apathit Kabyansh and Gadyans

PHYSICAL EDUCATION

SA I & SA II

- Topic — 1. March Past
Game — T.T. Basket Ball, Volley Ball, Kho-Kho
Quiz — Sports based

YOGA

SA I

- Topic — Padahastasana, Halasana

SA II

- Topic — Kurmasana in Brisasana
Matsasana in Bajrasana

ART

S A I

FA I

- Topic — a) Composition with human figure. (Indoor or Outdoor)
b) Craft Work.

FA II

- Topic — Composition with Water Colour
Project — on Paper

S A II

FA III

- Topic — a) Composition with Nature
b) Commercial Work.

FA IV

- Topic — a) Composition Sketch with Pencil or Colour
b) Project on Subject

COMPUTER

S A I

- Topic — Unit – 1 : Ch 1: Internet Basics
Unit – 1 : Ch 3: Web Browsers
Unit – 2 : Ch 5: Introduction To Html
Unit – 2 : Ch 6: Html Text
Unit – 2 : Ch 7: Working With Html Lists
Unit – 2 : Ch 1: Inserting Images Into Html Document
Unit – 2 : Ch 2: Tables In Html

Unit – 2 : Ch 3: Hyperlinks And Anchors
Unit – 3 : Ch 1: Website Designing (Project)

S A II

Topic

- Unit - 2 : Cha 1 : Database Management System
- Unit – 2 : Cha 2 : Introduction To Openoffice.Org Base
- Unit – 2 : Cha 3 : Working With Base Table Field Properties
- Unit – 2 : Cha 4 : Working With Base Table Records
- Unit – 3 : Cha 1 : Business Computing (Project)