St. Xavier’s School, Doranda

Syllabus for (2014--15)

CLASS VIII

ENGLISH VIII-2014-15

Mid Term
English 1 – Grammar

APRIL
1. Analysis of simple sentences
2. Comprehension (Written and aural Practice)
4. Essay Writing
5. Letter Writing (Formal and Informal)

MAY - JUNE
6. Phrase: Noun, Adjective and Adverb
7. Clause: Noun, Adjective and Adverb

JULY - AUGUST
8. Verb (Tenses – Present, past & Future)

ENGLISH 2 (Literature) Aster Text &
R.R. The Best of O’Henry

APRIL
1. A Present for Grand Father
2. O Captain! My Captain

MAY - JUNE
3. A present for Grandfather
4. Lines written in Early Spring

JULY - AUGUST
5. The Three Questions
6. R.R. – Chapters 01 and 4

English 3 – Elocution – (Elocution Manual+ aural / written Comprehension Practice and Dictation)

17th September: Mid Term Examination
Entire syllabus of English I and 2

1st UNIT TEST
English 1 – Analysis (Phrases Noun, Adjective, Adverb)
English 2- A Present for Grand Father

2nd UNIT TEST
English 1 –Clauses (Noun, Adjective & Adverb)
English 2 – O Captain! My Captain

3rd UNIT TEST
English – 1 – Complex-Compound Sentences +Prepositions
English 2 – The Average Man.

FINAL TERM
English 1 (Language)

OCTOBER- NOVEMBER
1. Conjunction
2. Synthesis of simple sentences, Compound and complex
3. Active & passive Voice
4. Comprehension (Written)
5. Essay writing
6. Letter Writing (Formal, Informal)

DECEMBER
7. Transformation – Adverb “Too”
8. Interchange of Affirmative to Negative.

English 2 – Literature

OCTOBER
1. Home They brought Her Warrior Dead.

NOVEMBER
2. The Average Man
3. Parrots.

DECEMBER
4. The Best Advice I Ever Had
R.R.- Ch 5 and Ch. 6
English 3 – Elocution + aural & message writing  

1st February – Final Examination  

English 1 Language  
Entire syllabus (Midterm +Final Term)  

English 2 Literature.  
Entire Final Term syllabus & Lines written in Early Spring & The Three Questions. R.R.  
Chapter -1,4,5 & 6.  

Project in English - I –  
Conjunctions – Subordinating Co-ordinating with proper examples (in sentences)  

Project in English – II  
O Henry and any 2 of his works (in summary)  

MATHEMATICS  

Mid Term Examination  

Arithmetic :-  
1. Approximation (Rounding off and Significant figures)  
2. Rational Numbers  
3. Power and Roots  
4. Ratio and Proportion  
5. Unitary Method  
6. Percentage  
7. Profit, Loss and Discount  

Algebra :-  
1. Four Fundamental Operations  
2. Special products  
3. Expansions  
4. Factorization  
5. Simple (Linear) Equation  

Geometry:-  
1. Simple problems based on Angles, Parallel Lines and Triangles.  
2. Pythagoras Theorem  

SYLLABUS FOR FIRST UNIT TEST :-  
1. Approximation (Rounding off and Significant Figures)  
2. Rational Numbers  
3. Four Fundamental Operations in Algebra.  

SYLLABUS FOR SECOND UNIT TEST  
1. Powers and Roots  
2. Ratio and Proportion  
3. Expansions  

FINAL TERM EXAMINATION  

Arithmetic:-  
1. Speed, Distance and Time (Including relative speed)  
2. Simple Interest (Compound Interest not included)  
3. Power and Roots ( Topic from Mid-Term)  
4. Ratio and Proportion ( Topic from Mid-Term)  
5. Profit , Loss and Discount.  

Algebra:-  
1. Word problems on linear equation.  
2. Simultaneous linear equation.  
   ( Algebraically and graphically)  
   (Word Problems not Included)
3. Algebraic fractions.
4. Expansion. (Topics from Mid Term)
5. Factorization. (Topics from Mid Term)
6. Simple (Linear) Equation

**Geometry:**

1. Congruency of triangles
2. Construction of triangles
   - Case – I: When sum of two sides are given
   - Case – II: When difference of two sides are given
   - Case – III: When the perimeter is given

**Mensuration:**

1. Area and Perimeter of plane figures. (Triangle, Square, Rectangle, Parallelogram, Rhombus, Trapezium)

**SYLLABUS FOR THIRD UNIT TEST:**

1. Simple (linear) Equation
2. Factorization
3. Unitary Method
4. Percentage

**MONTH WISE BREAK UP OF SYLLABUS**

**April:** Approximation
   - Rational Numbers
   - Four Fundamental Operation in Algebra

**May:** Power and roots
   - Special products

**June:** Ratio and Proportion
   - Unitary Method

**July:** Percentage

**Profit, Loss and Discount**

**Expansion**

**August:** Factorization
   - Simple Equation
   - Parallel Lines
   - Triangles and Pythagoras theorem

**Sept:** Speed, Distance and Time
   - Simple Interest
   - Word problems on linear equations
   - Simultaneous linear equations (Algebraically & Graphically)

**Nov:** Algebraic Fractions
   - Congruency of Triangles

**Dec:** Construction of Triangles

**Jan:** Area and Perimeter of plane figures

**Feb:** Revision

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**Geography – VIII 2014-15**

**APRIL – MAY - JUNE**

**I. SOLAR SYSTEM**
   a) Sun and its layers and atmosphere
   b) Planets – Classification, mythological names, important satellites, approximate distances from the sun, speed of rotation and revolution
   c) Other celestial bodies – asteroids, meteors, comets.

**II. WEATHER AND CLIMATE**
   a) Difference between the two terms
   b) Factors affecting weather and climate
   c) Temperature – insolation and Terrestrial radiation
   d) Factors – with diagrams
   e) Terms related to temperature
1\textsuperscript{st} Unit Test On Topics I & II

JULY

III. MEASUREMENT OF TEMPERATURE
   a) Six’s maximum & minimum thermometer, Stevenson’s screen, diurnal range, annual range, mean and monthly range of temperature.

AUGUST

IV. ATMOSPHERIC PRESSURE
   a) definition and factors affecting it
   b) Types of pressure
   c) Instrument used to measure atmospheric pressure-fortin’s aneroid, Altimeter
   d) Winds and Pressure belts.

2\textsuperscript{nd} UNIT TEST On Topics III & IV

SEPTEMBER

V. PRECIPITATION
   a) Difference between rainfall and Precipitation
   b) Types of precipitation
   c) Measurement of rainfall
   d) Types of rainfall – Orographic, convectional, cyclonic.
   e) Rain gauge & isohyets

VI. EUROPE
   a) Introduction
   b) Physical features
   c) Map work (1) location (latitudes, longitudes, water bodies, island groups)
   d) Map work – Relief- mountains, plains(rivers), plateaus

MID TERM EXAM – Topics 3, 5 and 6

OCTOBER - NOVEMBER

VII. NATURAL REGIONS OF EUROPE
   a) Natural regions with notes in column wise details
   b) Map work of natural regions

3\textsuperscript{rd} UNIT TEST On Topics VII

JANUARY

VIII. ASIA
   a) Introduction
   b) Map work – (i) Location
      (ii) Relief I- mountains and plateaus
      (iii) Relief II – River and plains
      (iv) Natural region divisions
      (v) Formation of Himalayas

FEBRUARY

CASE STUDIES
   a) Wheat cultivation in Punjab.
   b) Plantation Agriculture in Kerela

FINAL TERM – Topics 1, 2, 4, 6, 7, 8 and all case studies.

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CHEMISTRY

MID TERM

1. Matter & its composition
   April – Particulate nature of matter, inter conversion of states of matter
   May – Kinetic theory of matter & explanation of change of the state on the basis of their inter particle space, attraction & collision.
   June – Law of conservation of mass

2. Elements, compounds & mixtures
July – a) Gen. characteristics & difference between elements, compounds & mixtures.
   b) Types of mixtures: of two solids, a solid and a liquid, two liquids, liquid and gas, two gases
   c) Separation of mixtures, involving use of a solvent, filtration, evaporation & distillation, simple paper chromatography, centrifugation
d) immiscible liquid.

1ST WEEK OF AUGUST
3. Language of chemistry
Symbol of an element, valency, formulae of radicals and formulae of compounds. Balancing of simple chemical equations.

2ND WEEK OF AUGUST TO 2ND WEEK OF SEPTEMBER-
4. Atomic structure
Structure of an atom, mass numbers and atomic numbers, isotopes & octet rule
Definition of an element, definition of an atom, constituents of an atom – nucleus with associated electrons. mass number, atomic number

Electron distribution in the orbits – $2n^2$ rule, octet rule. Reasons for chemical activity of an atom, definition & examples of isotopes (hydrogen, carbon, chlorine)

FINAL TERM
2ND WEEK OF OCTOBER TO 1ST WEEK OF NOVEMBER
Chemical bonding (Ionic & covalent compounds)

2ND WEEK OF NOVEMBER TO THE 4TH WEEK OF NOVEMBER
PHYSICAL & CHEMICAL CHANGES
a) Defn. & distinction between physical & chemical changes
b) Conditions for chemical change
c) Types of chemical change
d) Energy changes in a chemical change
e) Burning : Defns. & conditions of burning
Types of chemical reactions:-

December- Burning, Defns. & conditions of burning comparison of respiration burning. Burning of Mg, how the balance of $O_2$ & $CO_2$ is maintained in nature.

HYDROGEN

2ND WEEK OF JAN TILL 4TH WEEK OF JAN
Preparation of Hydrogen from-
   a) water  b) Dil acids  c) from alka lis; properties and uses

1ST UNIT TEST
Matter & its composition – Particulate nature of matter, inter conversion of states of matter, kinetic theory of matter & explanation of change of
state on the basis of inter particle space, attraction & collision.

2nd UNIT TEST
Elements, compounds & mixtures

3rd UNIT TEST
Atomic structure & chemical bonding.
Mid terminal examination-
Matter & its composition
Elements, compounds & mixtures
Language of Chemistry
Atomic Structure
Final Terminal examination
1. Language of Chemistry
   a) Formulae
   b) Chemical reactions (balancing)
2. Atomic Structure Atom –its structures to Isotopes
3. Study of the first element-Hydrogen
   Occurrence
   Preparation
   Properties
   Tests of Hydrogen and Uses
4. Physical & Chemical Changes

PHYSICS -2014-15

Mid Term Examination

1st Term
1. Heat
2. Transfer of Heat
4. Reflection of light at a plane surface.

1st UNIT TEST
1. Heat

2nd Term
1. Transfer of Heat
2. Energy flow and conservation of resource.

FINAL TERM
1. Spherical mirror
2. Propagation of sound
3. Static Electricity
5. Reflection of light at a plane surface.

3rd UNIT TEST
1. Spherical mirror
2. Propagation of sound

Breakup of the syllabus:
April: Heat
May: Heat
June: Transfer of heat
July: Transfer of heat
Energy flow and conservation of resource.
August: Reflection of light at a plane surface.
September: Spherical mirror
October: Propagation of sound
November: Static electricity
December: Magnetism
January: Magnetism
February: Revision

BIOLOGY – VIII 2014-15
1st Terminal Examination
1. Introducing Biology
2. Living, Non-living and the dead.
3. Cell
4. Five kingdom classification.
5. Economic importance of Bacteria & Fungi.
6. Diseases – cause & control
7. Hygiene

FINAL TERMINAL EXAMINATION

Chapter 2 and

9. Flower
10. Pollination & Fertilization
11. Seeds – Structure & Germination
12. Respiration in Plants
13. Ecosystems

Project – Select any one topic

1) Waste collection & management
2) Medicinal plants of Jharkhand.
3) Five kingdom classification.

APRIL

Introducing Biology
Living, Non-Living & The Dead
1st Week -
   a. Properties of life
   b. Behaving like living but actually non-living.
Cell: Unit of Life:
   • What is cell
   • Invention of microscope
2nd Week:
   • Cell theory
   • Cell no., how small, shapes
   • Structure of cell

3rd Week:
   • Plant and animal cells
   • Protoplasm
   • Prokaryotic & Eukaryotic cells

4th Week:

Five Kingdom Classification
   • What is species
   • Categories higher than species
   • Drawbacks of old two kingdom classification

MAY

1st Week:
   • Five kingdom classification
   • naming an organism
   • Major group of animals

JUNE

3rd Week – Invertebrate phyla: Porifera to echinodermata
   • Phylum chordate (Vertebrata)

Economic Importance of Bacteria & Fungi
   • General study of bacteria

4th Week:
   • Useful role of bacteria in medicine, agriculture & industry, spoilage of food. Bacterial disease in plants & animals, Bioweapons.
JULY

1st Week:
- Fungi – general study
- Economic importance of yeast
- Useful & harmful fungi
- Role in industry

2nd Week – Diseases: Cause and Control
- What is disease
- Categories of diseases
- On the basis of occurrence
- On the basis of communicability
- Disease caused by bacteria
- Disease caused by protozoa
- Disease caused by parasitic worms
- Disease caused by viruses
- Test

Hygiene – personal & social hygiene & sanitation

4th Week – Vegetative propagation and Micropropagation
- Artificial veg. prop.
- Advantages & Disadvantages
- Economic Importance

SEPTEMBER

1st WEEK:
- Definition of pollination
- Types of pollination
- Advantage & disadvantage of self & cross pollination

4th Week Seeds – Structure & germination
- Classification of seeds
- Structure of monocot & dicot seeds.

OCTOBER

2nd Week
- Germination – Factors responsible
- Experiments on germination
- Types
- Germination in some common seeds
- Test

4th Week: 11. Respiration in Plants
- What is respiration
- Respiration vs. burning
- Entire plants respires
**NOVEMBER**

1st Week:
- Type of respiration
- Experiments on respiration in plants
- Respiration contrasted with photosynthesis
- Respiration in plants compared with respiration in animal

3rd Week - Test

**Ecosystems**
- What are ecosystems
- 4th Week – Components of an ecosystem.

**DECEMBER**

1st Week:
- Forest – Flora & Fauna
- Food chain & Food webs
- Food pyramids

**JANUARY**

**REVISION & TEST**

HISTORY & CIVICS - 2014-15

**Mid Term**

**CIVICS**

**APRIL:**

Unit 1 – (1) Our Constitution*
- Meaning (b) The constituent Assembly. Formation, Composition, Time taken to complete the composition, Time taken to complete the constitution, its enactment and implementation. (c)

**THE PREAmBLE, MEANING, PRINCIPLES & SIGNIFICANCES.**

**JULY:**

Unit 3 – (2) Basic features of constitution (a) Type of constitution (b) Salient feature of our constitution.

**HISTORY**

**MAY – JUNE:**

Unit 2- (4) The Mauryan Empire* (a) The Mauryan Empire, (b) Ashoka, The Great (273-236 B.C) (c) Pan-Indian character of about the Mauryan Administration, (e) Nature of government and state under the Mauryans (f) Dhamma and spread of Buddhism, Ashoka’s Dhamma or Dharma Ashoka’s Measures to spread his Dhamma & Ashoka’s Measures to spread his Dhamma & Ashoka’s service for the spread of Buddhism.

**AUGUST:**

Unit 4- (5) India form Guptas ot Harsha (Political & Cultural Development) (a) The Imperial age of the Guptas (320 AC to 540 AD) (b) Harshavardhana (c) The Golden age of Indian culture.

Unit Test – All that is marked with *

Chapters for Mid Term (Unit Test)

1) Our Constitution (Unit Test I )
2) Mauryan Empire (Unit Test II)

**FINAL TERM**

**CIVICS**

**OCTOBER:**

Unit 5- (3) Fundamental Rights & Duties, (a) meaning, specific reason for its inclusion in the constitution (b) Characteristic features of Fundamental Rights, restrictions on
Fundamental Rights. (d) Fundamental duties and its significance.

December:

HISTORY
November:
UNIT 6 - (9B) Reformation
Meaning of Reformation and its Three Dimensions, causes leading to Reformation, The Role of martin Luther (1483 – 1546 A.D.)

January:
UNIT-8(9C) Industrial Revolution- (a) Meaning of Industrial Revolution (b) Impact of the Industrial Revolution.

UNIT TEST – All that is marked with*
Chapter for Final Term Unit Test:
1) Directive principal of state Policy (Unit Test III)
2) Project work – Industrial Revolution.

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HINDI 2014-15
Section A (40 Marks)
भाषा – (1) सरस हिंदी व्याकरण निबंध
(2) एकांकी सुमन –
(3) निबंध
(4) पत्र – (1) ऑपचारिक (2) अनौपचारिक।
(5) व्यावहारिक व्याकरण – चिलम, पर्यायवाची, वायव्यंश, गुम्ब, मुहावरा, लोकोक्ति।

Section B (40 Marks)
बाहित्य – भाषा सेतु –
1) क्या निराध (2) युगावतार गौंधी (3) हरित क्रंति (4) पत्थि और क्षमा (5) सच्चि मित्रता (6) स्वामी विवेकानंद (7) दुर्घटनाग्रस्त मित्र (8) सूखे सूखन (9) दुनिया की छत (10) भवित पदावली (11) कलिंग–विषय (12) वर्दान (13) प्रायश्चित।

व्याकरण – (1) संधि (2) समास (3) वाच्य (4)वाय

Mid Term
Section A
भाषा – (1) सरस हिंदी व्याकरण निबंध
(2) एकांकी सुमन (क) राजसरणी सीता (ख) विजय की बेला।
(3) निबंध 1–15

(2) पत्र – 1–10

Section B
साहित्य – भाषा सेतु – (1) क्या निराध (2) युगावतार गौंधी (3) हरित क्रंति (4) पत्थि और क्षमा (5) सच्चि मित्रता (6)स्वामी विवेकानंद (7) दुर्घटनाग्रस्त मित्र व्याकरण – (1) संधि (2) समास (3) वाच्य–परिभाषा, भेद, उदाहरण, परिवर्तन।

Final Term
Section A
भाषा – (1) सरस हिंदी व्याकरण निबंध
(2) एकांकी सुमन (क) भटकन (ख) सीमा–रेखा।
(3) निबंध 16–31
(4) पत्र 11–20
(5) व्यावहारिक व्याकरण

Section B
साहित्य – भाषा सेतु – (1) सूखे सुमन (2) दुनिया की छत (3) भक्ति पदावली (4) कलिंग-विजय (5) वरदान (6) प्रायोगिकता।

व्याकरण – वाक्य – वाक्य रचना, वाक्य के अंग, वाक्य परिवर्तन।

अग्रह – (1) पत्र (2) निबंध (3) व्यावहारिक व्याकरण (4) व्या निराश (5) संधि।

जून – (1) पत्र (2) निबंध (3) राजसाही सीता (4) गुणावतार गाँधी।

जुलाई – (1) व्यावहारिक व्याकरण (2) हरित क्रांति (3)चक्ति और (4) निबंध।

अगस्त – (1) समास (2) सच्ची मित्रता (3) स्वामी विवेकानन्द (4) निबंध।

सितंबर – (1) वाक्य (2) विजय की बेला (3) दुर्घटनाग्रस्त मित्र (4) निबंध।

रेडियोस्टीवल – (1) पत्र (2) सूखे सुमन (3) भटकन (4) निबंध।

नवम्बर – (1) दुनिया की छत (2) निबंध (3) पत्र (4) वाक्य।

दिसम्बर – (1) पत्र (2) निबंध (3) भक्ति पदावली (4) सीमा –रेखा।

जनवरी – (1) पत्र (2) व्यावहारिक व्याकरण (3) कलिंग-विजय, (4) वरदान।

फरवरी – (1) पत्र (2) निबंध (3) व्यावहारिक व्याकरण (4) प्रायोगिकता – Revision.