

**ST.XAVIERS SCHOOL, DORANDA
SYLLABUS FOR (2011-12)**

CLASS - VIII

SUBJECT – English

MID TERM

4th April – 8th April – Parts of Speech, Subject & Predicate (Rev) / A Magical Animal (Gulmohar)/ Three Men in a Boat (R.R.) Introduction.

11 April – 16th April – Analysis of simple sentences/ Access unit – 1/ A Magical Animal (G.M.)/ R.R. =- Ch01/ Elocution Manual – Poetry.

19th April – 20 April – Noun Phrase / Access-02/ Letter writing (information) Elocution/ A Magical Animal/ R R -2.

25 April – 29 April – Adjective Phrase/ Assess – 03/ Essay writing (Desc.) Where the Mind is without Fear (G.M.)/ R.R. - 3

02 May – 05 May – Adverb Phrase/ Access – 04/ DO (G.M.) Holiday Home Work – Six Novels (Synopsis)

09 June – 11 June – Phrases (Revision)U.T./ Elocution Three Questions (G.M.)/ R.R. – 04

13 June – 18 June – Noun Clause/ Access – 04 Three Questions (G.M.)/ R.R. - 05

20 June – 25 June – Noun Clause / Conversion / Comprehension – Summary/ Three Questions/ R.R. – 01- 05 Vocab.

27 June – 02 July – Adjective Clause/ Access 1 – 05 (Vocab)/ To a Daughter leaving Home (G.M.) R.R. – 06

4 July – 9 July – Adjective Clause + Conversion/ Letter Writing (Formal)/ Access – 06 to A Daughter Leaving Home (G.M.)/ R.R. – 07.

11 July – 16 July – Adverb Clause / Access – 08/ Essay Writing (Argumentative)/ Catastrophe At Chernobyl (G.M.)/ R.R. – 07.

18 July – 23 July – Adverb Clause + Conversion Catastrophe at Chernobyl (G.M.)/ R.R. – 08

25 July – 29th July – Verb – (Rev) Present / Access. Catastrophe at Chernobyl (G.M.) R.R. – 08

1 August – 6 August – Verb (Rev) Past/ Access/ Owen Vs. Master Race (G.M.) R.R. – 6,7,8 (Rev)

8 August – 12 August – Verb (Rev) Future/ Essay writing (Narrative)/ Owen vs Master Race (G.M.) R.R. – 09

16 August – 20 August – Active & passive (Rev) Interchange of one part of Speech to Another/ Owen vs. Master Race (G.M.)

23 August – 27 August – Phrasal verbs/ Project/ Aural Evaluation

29 August – 03 September – Synthesis simple sentences/ access (Vocab) / Letter Writing (Formal)/ Project/ Aural Evaluation.

6 September – 10 September – Synthesis/ Access (Vocab) Aural Evaluation

12 September – 17 September – Synthesis/ Access (Vocab) Aural Evaluation.

19 – September – 23 September – (Revision of English I & II) Discussion & guidance Based on Unit Test Performance/ Aural Evaluation.

FINAL TERM

10 October - 15 October – Reported Speech/ Access (Vocab) A night to Forget/ Silent Reading

17 October – 21 October – Reporting Speech/ Access (Vocab)/ A Night to Forget (R.R.- 11)

22 October – 27 October – Conjunction + Compound Sentences (Conversion)/ Bodyline/ R.R. – 12.

28 October – 5 November – Compound Sentence (Conversion) Body Line / R.R. – 13

07 November – 12 November – Transformation – Adv “Too” Body Line/ R.R. – 13/ Silent Reading

13 November – 19 November – Interchange of one part of speech to another/ R.R. – 14

21 November – 26 November – Interchange of one part of speech to another/ Story writing

28 November – 8 December – Letter writing/ Preposition/ R.R. – 14

09 December – 19 December – Comprehension & Summary writing/ Compound Sentences – Conversion (Rev.)

5 January – 10 January – Interchange of Affirmative to Negative / All the world's A stage.

11 January – 17 January – Exclamatory & Assertive + Interchange of degrees of Comparison/ All the World's a Stage.

18 January – 23 January – Interchange of Degrees of Comparison/ R.R. – 15.

24 January – 30 January – Assertive to interrogative / R.R. – 16/ One more Chance.

31 January – 6 January – Revision of Trans Formation/ one More Chance.

7 January – 11 January – Revision of English I & II Whole Syllabus.

SUBJECT – Mathematics - VIII

MID TERM

ARITHMATIC: i) Power & root

- ii) Rational Nos.
- iii) Ratio & Proportion
- iv) Unitary method
- v) Percentage
- vi) Speed, Time & distance

Algebra: vii) Four fundamental operations

- viii) Expansions
- ix) Factorization

Geometry: x) Angle and Parallel lines

- xi) Triangle – (Theorem)

FINAL TERM

Arithmetic: i) Power & Roots

- ii) Profit & Loss
- iii) Speed , Time & Distance
- iv) S.I.

Algebra: i) Expansion

- ii) Factorization
- iii) simple equ.
- iv) Simultaneous equation.

(Algebraically)

- v) Sim. equ. (graphically)

Geometry: i) Construction of Δ 's

- ii) Congruency

Menstruation: i) Perimeter & Area

APRIL: TOPICS - 1) Power & Root, 2) Rational Nos., 3) four fundamental operation, 4) Angles & Parallel lines.

1st week – (Power & Roots, Addition & Type Angles)/ **2nd week** – (Power & root, Subtraction & Const. of Angles)/ **3rd week** – (Rational No., Multiple & Parallel lines), **4th week** – (rational, Div. & Parallel lines).

MAY – TOPICS - 1) Ratio , 2) Expansion – **1st week** – (Ratio & Expansion)

JUNE – TOPICS - 1) Ratio & Prop. 2) Expansion 3) Triangle – **2nd week** – (Ratio and proportion Expan. Triangles

JULY – TOPICS -1) Unitary method, 2) Percentage, 3) Factorization, 4) Triangle – **1st & 2nd week** – (Unitary fact, Trigonometry)/ **3rd & 4th week** – (Percent Fact. Trigonometry.)

AUGUST : TOPICS -1) Speed & Distance, 2) fact. 3) Triang. – **1st to 4th week** - (Speed Fact & Tri.)

SEPTEMBER - TOPICS – 1) Profit & Loss, 2) Simple equ. 3) Congruency – **1st week** – (P/L equ. Con)/ **2nd to 4th week** – (Speed, Fact & Tri.)

OCTOBER – TOPICS- 1) speed & Dis. 2) Simulata equ. 3) Congruency. **2nd to 4th week** – (Speed, Fact & Tri.)

NOVEMBER - TOPICS: 1) Perimeter of Areas
2) simal graph -

DECEMBER – 1) Area and Perment or Rect &sq. 2) Con.

JANUARY: 1) Area & Perimeter 2) Con.

FEBRUARY : Revision

SUBJECT – Physics - VIII

1ST TERM

1. Heat
2. Transfer of heat
3. Energy flow and Conservation of resources
4. Reflection of light at a plane surface.

2ND TERM

1. Spherical Mirror
2. Propagation of Sound
3. Static Electricity
4. Magnetism
5. Heat
6. Reflection of Light at a Plane surface.

Project: On the Topic Heat and Temperature.

Break up of the Syllabus

April: 1. Heat - 1st Week – Heat and Temperature, 2nd Week – Thermal expansion of solids. 3rd Week Thermal Expansion of liquids. 4th – Different scales of temperature.
May: Heat – 1st Week – Relation between different Scales.

June: Transfer of Heat – 2nd Week Conduction, 3rd Week – Convection, 4th Week Radiation .

July : 1. Transfer of Heat, 2. Energy flow and Conservation of Resources – 1st Week – Green House Effect and Global warming, 2nd week Energy Flow and its importance. 3rd Week Resources and its conservation, 4th Revision of the Chapter.

August : 1. Reflection of light at a plane surface, 2. Spherical mirror – 1st Week- Laws of reflection and formation of image by a plane mirror. 2nd Week Image formed in a pair of mirrors. 3rd Simple periscope and user of plane mirror. 4th Week – Spherical mirrors, image formation and their uses.

September : Spherical mirror – 1st Week – uses of Spherical Mirrors, 2nd Week Ray diagram for formation of images. 3rd Week Revision for 1st terminal. 4th Mid Term.

October : Propagation of sound – 2nd Week Production of sound wave. 3rd week Propagation of sound wave. 4th Week Range of Hearing and Ultra Sound.

November : Static Electricity – 1st Week - Introduction of the Chapter, Charging of an object. 2nd Week – Orbital Model of Atom. 3rd Week – Detection and testing of charges. 4th Sparking and lightning.

December : Magnetism – 1st Week - Introduction of the chapter magnets, Induced magnet. 2nd Week – Lines of magnetic field.

January : Magnetism – 1st Week - Properties of Magnetic Field, 2nd Week - Magnetic field of Earth, 3rd week – Plotting of uniform magnetic fields of earth .4th Week – Neutral Points.

SUBJECT – Chemistry

MID TERM

April - Chapter 1
(Matter & its composition)
14th April to 7th May
Particulate nature of matter
Intercon version of states of matter
Kinetic theory of matter & explanation of change of state on the basis of inter particle space, attraction & collision.

8 JUNE – 18 JUNE - Law of conservation of Mass.

Chapter 2 (Elements, Compounds & Mixtures)

a) Gen Characteristics and difference between elements, compounds & mixtures.

b) Types of mixtures: of two solids, a solid and a liquid, two liquids, liquid and gas, two gases.

1st July – 9th July – Separation of mixture, involving use of a solvent, filtration, evaporation and distillation, simple paper chromatography, centrifugation immiscible liquid.

11th July – 16 July – Chapter 3

Language of Chemistry

Symbol of an element, valency, formulae of radicals and formulae of compounds.

Balancing of simple chemical equations.

18th July – 6th August

Chapter 4

Atomic Structure

Structure of an atom, mass number and atomic number, 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. Reason for chemical activity of an atom. Definition and examples of isotopes (hydrogen, carbon, chlorine).

Final Term

Chemical Bonding

(Ionic and covalent compounds)

(8th August – 27th August)

Chapter 5

Physical and Chemical changes.

29th August – 23rd September

a) Defn. & distinction between physics & Chemical changes.

b) Condition for Chemical change

c) Types of chemical change

d) Energy changes in a chemical change.

e) Burning: Defn & conditions of burning.

Chapter 6

Types of Chemical Reactions (10th October – 28th Oct.)

Chapter 7 (1st November – 30th November.)

Burning

Defn. & Conditions of burning

Comparison of respiration and burning.
Burning of Mg, how the balance of O_2 & CO_2 is maintained in nature.

Chapter 8 (1st December – 15th January)

Hydrogen

The Position of hydrogen in the periodic table similarities between hydrogen & alkali metals preparation of hydrogen. (lab & Industrial prepn.)

Properties, uses & Test of H_2

Revision (15th January – 28th February)

Geography - VIII

4th – 16th April

1. Solar System

a) Sun – 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.

17th April – 6th May

2. Weather and climate

a) Difference between the 2 terms

b) Factors affecting weather and climate.

10th – 30th June

3. Temperature (definition)

a) Insolation and Terrestrial radiation.

b) Take each of the factor and explain with diagrams.

c) Define all related terms: Lapse Rate, Inversion of temperature, Maritime – oceanic – insular (small range) Continental – extremes (large range) isotherms, isohels, isonephs.

1st – 31st July

d) i) Measurement of Temperature:- Six's Max- Min, Stevenson's Screen (Characteristics with diagrams)

ii) Diurnal range, annual range, mean monthly and mean annual definitions.

4. Rain fall (definition):

a. Humidity – absolute and relative

b. Hygrometer – diagram and function.

1st -31st August

5. c) Condensation and different types of precipitation:

d) Types of Rainfall

- i) Convectional – areas, requirements, stages (all to be explained with diagrams)
- ii) Orographic- areas, requirements, stages (to be explained with diagrams)
- iii) Cyclonic – both temperate frontal and tropical circular – areas, requirements, stages (diagrams)

e) Measurement of Rainfall – Rain gauge total, monthly and annual rainfall, Isohyets (definitions)

1st – 20th September

- 6. Atmosphere Pressure (definition)
- a) Types of Pressure and their causes.
- b) Instruments used to measure atmospheric pressure – Fortin’s, Aneroid, Altimeter (in brief)
- c) Related Terms – Isobars

Revision

Mid – Term Examination

7. Relief of Asia to be done theoretically:

- a) Himalayas – Formation
- b) Plateaus – Intermont, dissected, structural (with examples)
- c) Plains – alluvial, flood, deltaic (with examples)
- d) Residual mountain – Aravallis (details)
- e) map works showing location of Asia (latitudes, longitudes, water bodies, island groups)

History & Civics - VIII

Civics (MID TERM)

Unit 1 – 1) Our Constitution a) Meaning b) The Constituent Assembly. Formation, Composition, Time taken to Complete the Constitution; its enactments and implementation. c) The Preamble; meaning principles & significances.

Unit 3 – 2) Basic Feature of Constitution: a) Type of Constitution b) Salient Feature of our Constitution.

Unit 5 3) Fundamental Right & Duties; a) Meaning, specific reason for its inclusion in the Constitution b) Characteristic feature of Fundamental Right, restrictions on Fundamental rights. d) Fundamental Duties and its significance.

History

Unit 2 4) The Mauryan Empire. a)The Mauryan Empire, b) Ashoka, The Great (273-236 BC), c) Pan- Indian Character of the Mauryan empire. d) Sources of information about the Mauryan Administration, e) Nature of government and state under the Mauryan, f) Dhamma and spread of Buddhism, Ashoka’s Dhamma or Dharma,

- f) Map work II – Relief I – mountains and plateaus.
- g) Map work III – rivers and plains

1st – 30th November

- h) Map work IV – S.E. Asia (island and water bodies)
- i) Map work V – Natural region with theoretical explanation of Tropical Monsoon only.

1st – 20th December

Any portions that are behind the time schedule to be made up.

5th – 31st January 2012.

- 8. Europe – through maps only
- a) map work I – location (latitudes longitudes, water bodies, island groups, few important volcanoes.)
- b) Map work ii – Relief I – mountains, peaks, plateaus.
- c) Map work III – Relief II – Rivers and Plains
- d) Map work IV – Natural regions with explanations of Mediterranean reference to viticulture.

February – Revision

Ashoka’s Measures to spread His Dhamma & Ashoka’s service for the spread of Buddhism.

Unit 4. 5) India from Guptas to Harsha (Political & Cultural Developmet). a) The Imperial age The Guptas (320 AD to 540 AD). b) Harshavardhan. c) The Golden Age of Indian Culture.

FINAL TERM

CIVICS

Unit 6- 6) Directive Principles of state Policy. - a) Meaning ; Classification, importance, implementation, b) Difference between Fundamental right and directive principles.

Unit 8 – 7) Elections – a) Meaning and Kinds; b) Constituency; c) Composition and Functions of the election Commission of India.

HISTORY

Unit 7. 8) The Reformation – a) Meaning of Reformation and its three dimensions, b) Causes leading to reformation.

Unit 9. 9) Industrial Revolution – a) Meaning of Industrial Revolution. b) Impact of the Industrial Revolution.

Biology - VIII

1st Terminal Examination

- 1) Living, Non-living and the dead.
- 2) Cell
- 3) Five kingdom classification.
- 4) Economic importance of Bacteria & Fungi.
- 5) Diseases – cause & control
- 6) Hygiene
- 7) Vegetative propagation & Micro propagation

FINAL TERMINAL EXAMINATION

Chapter 2, 3, 7

- 8) Flower
- 9) Pollination & Fertilization
- 10) Seeds – Structure & Germination
- 11) Respiration in Plants
- 12) Ecosystems

Project – Select any **one** topic

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

APRIL

1. Living, Non-Living & The Dead

1st Week -

- Properties of life
- Behaving like living but actually non-living.

2. 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:

- Test on chapter no. 1 & 2

3. 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

2nd Week – Invertebrate phyla : Porifera to echinodermata

- Phylum Chordate (Vertebrata)

4. Economic Importance of Bacteria & Fungi

4th Week:

- General study of bacteria
- 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 – 5. 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

6 . Hygiene – personal & social hygiene & sanitation

4th Week 7. Vegetative propagation and Micro propagation

- Artificial veg. prop.
- Advantages & Disadvantages
- Economic Importance

AUGUST

1st Week:

- Hybridization
- Micropropagation
- Somatic cell hybridization
- Biotechnology & its application in medicine & industry
- Transgenic organisms

2nd Week 8. Flower

- Structure of bisexual flower
- General description of floral parts.

4th Week – Pollination and fertilization

- Definition of pollination
- Types of pollination

- Advantage & disadvantage of self & cross pollination

SEPTEMBER

1st WEEK:

- Devices favouring cross pollination
- Agents of pollination
- Some examples of pollination
- Test
- Fertilization – pollen grains, ovule
- Germination of pollen grain.
- Double fertilization
- fate of floral parts after fertilization

4th Week 10 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 respire

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

12 - 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

हिन्दी 8

सिलेबस 2011–12

भाषा— 40 अंक, सेक्शन—अ

व्याकरण एवं एकांकी सुमन के विभाजित पाठ

1. निबंध – 1 – 4
 2. पत्र – 1. औपचारिक 2. अनौपचारिक
 3. व्यावहारिक व्याकरण 1. पर्यायवाची शब्द – 1–50
 2. विलोम – अ–म
 3. युग्म – अं – ध
 4. वाक्य खण्ड – 1–100
 5. मुहावरा – 1 – आँख
- एकांकी सुमन 1. राजरानी सीता 2. मेल–मिलाप 3. विजय की बेला
- साहित्य – (40 अंक) – **Section B**
- भाषा सेतु –1. जय हो 2. सच का झूठ 3. युगावतार गांधी 4. हरित क्रान्ति
5. प्रेमचंद का 6. शक्ति और क्षमा 7. सच्ची मित्रता
8. स्वामी विवेकानन्द 9. शांति स्वरूप भटनागर
- व्याकरण 1. समास 2. संधि 3. वाच्य

वार्षिक परीक्षा – भाषा . (40 अंक) – Section B

व्याकरण तथा एकांकी – पहले सत्र का पाठ संलग्न

1. निबंध – 5–8
 2. पत्र 1. औपचारिक 2. अनौपचारिक
- व्यावहारिक व्याकरण 1. पर्यायवाची – 50–60
2. विलोम – 4–क्ष
 3. युग्म – भ–म
 4. वाक्य – 100–120
 5. मुहावरा – 100–20
- एकांकी सुमन – 1. भटकन 2. सीमा–रेखा 3. लक्ष्मी का स्वागत
- साहित्य – (40 अंक) – **Section B**
- भाषा सेतु – 1. सूखे सुमन 2. सभ्य देश में 3. स्वतंत्रता का दीपक 4. दुर्घटनाग्रस्त मित्र
5. भक्ति पदावली 6. हेर–फेर 7. वरदान 8. प्रायश्चित 9. दुनिया की छत पर 10. व्याकरण – वाक्य

अप्रैल

1. निबंध–1, राजरानी सीता, सच का झूठ
2. पत्र– औपचारिक, औपचारिक पत्र, समास
3. पर्यायवाची शब्द, पर्यायवाची शब्द
4. विलोम शब्द – अ–आ, विलोम शब्द – इ से क
5. युग्म शब्द, वाक्य खण्ड
6. मुहावरा, मुहावरा

जून

1. युगावतार गांधी, प्रेमचंदका बचपन, हरित क्रान्ति
2. संधि

जुलाई

1. मेल-मिलाप, शक्ति और क्षमा, सच्ची मित्रता, निबंध-
2. वाच्य , पर्यायवाची
3. विलोम ख-ध
4. युग्म - के से ग
5. वाक्य - 40-60
6. मुहावरा 40-60

अगस्त

1. पत्र-1, निबंध- स्वामी विवेकानन्द, निबंध- भटकन
2. पर्यायवाची-30-40 , सुखे सुमन
3. विलोम- न-ल
4. युग्म-ज्ञ सं ध
5. वाक्य खण्ड 60-80
6. मुहावरा 60-80

सितम्बर

1. निबंध-1
2. पत्र -अनौपचारिक पुनरावृत्ति 1. मिडिल टर्म
3. व्यवहारिक व्याकरण
4. पर्यायवाची 40-50
5. विलोम व से स
6. युग्म न से प
7. वाक्य खण्ड 80-100
8. मुहावरा 80-100

अक्टूबर 1. भटकन, दुर्घटनागस्त मित्र को पत्र, शांति स्वरूप भटनागर, सूखे सुमन

नवम्बर

1. सीमा रेखा, दुनिया की छत पर, पत्र
2. विलोम पर्यायवाची 50-60
3. युग्म - क से म
4. वाक्य खण्ड 100-120
5. मुहावरा 100-120
6. वरदान

दिसम्बर

1. वाक्य , सभ्य देश में, दिसम्बर छुट्टी
2. हेर-फेर

जनवरी

1. स्वतंत्रता का दीपक, लक्ष्मी का स्वागत, भक्तिपदावली
2. वाक्य

फरवरी

1. प्रायश्चित, वाक्य , पुनरावृत्ति

Computer Applications Syllabus for Class VIII (2011-12)

First Term

April : Operating System: Operating System, Types of Operating system, Functions of OS, Booting, Bootable Files, Booting Process. Dos Commands i.e. DIR,CLS,MD,CD,Rd,COPYCON,COPY,REN,DEL,EDIT

May: GUI Operating System :Features of GUI, Elements of GUI, Features of Windows XP, Handling Files and directories under GUI, Shortcut, Managing the Windows Desktop

June: Introduction to Java OOP: OOP, Elements of OOP, Concept of Object and class, variables and constants, data types, ranges of various data types, operators, Type of Operators

July: Java Programming (Programs & Program Based Theory)

August : Programming in JAVA without any flow control

September ; Decision Making use of if, if...else, if...else if statements (Programs & Program Based Theory)

Final Term

October : Internet :Internet ,Origin of Internet, Internet access, types of access, Types of Internet Connections, Working of Internet, email, search engine, protocols, downloading.

November: Loops : Use of for loop in making java programs

December: Java Programming

January: a) Switch.. Case – Decision making programs using switch. case.

February: b) Loops –Use of for loop & while loop

ALL TOPICS FOR FINAL EXAMINATION
