

St. Xavier's School, Doranda

Session -2021-22

CLASS IX

English Language

1. Essay in 300 to 350 words (descriptive , narrative, argumentative, stories with opening and concluding lines)
 2. Letter writing formal/informal
 3. Notice and Email
 4. Unseen passage with Questions, word meaning and précis
 5. Grammar- preposition, synthesis, transformation, correct form of verb
 - All the above given topics to be included in all the three terms
 - Unit Test First term (June) 20 marks
 - First terminal examination (2nd August) 80 marks
 - Mid Term examination (23rd October) 40 marks
 - CCE based on the topics given above (Mid term) 40 marks
 - Project on Subject Verb Agreement (Mid term) 20 marks
 - Final examination (Final Term) 100 marks
-

English Literature

MONTH / WEEK

1. The Heart of the Tree (poem) 3rd week April
2. Old Man at the Bridge (prose) 4th week April
3. Act I scene i (Merchant of Venice) April - June
4. The Cold Within (poem) 1st week June
5. Chief Seattle's Speech (prose) 2nd week June
6. Act I scene ii, iii (M.O.V) 1st, 2nd, 3rd & 4th week June

Unit Test – June (20 marks) The Heart of the Tree, A Face in the Dark, Act I scene i (M.O.V.)

7. Bangle Sellers (poem) 3rd week June
8. A Face in the Dark (prose) 4th week June
9. After Blenheim (poem) 1st week July
10. Act I scene iii (M.O.V) 1st & 2nd week July
11. REVISION 3rd & 4th week July

First Terminal Exam (80 marks) August – All the chapters taught in the first term

1. Television (Poem) 3rd week August
2. Act 2 scene i & ii 3rd and 4th week August
3. Daffodils (poem) 1st week September
4. Hearts and Hands (prose) 2nd week September
5. Act 2 scene iii and iv 1st, 2nd, 3rd & 4th week September
6. Act 2 scene v 1st week October
7. REVISION 1st and 2nd week October

1. Mid Term Exam Oct (40 marks) – Daffodils, Act 2 scene i and ii, Hearts and Hands

2. CCE (40 Marks)-

- a. Character sketch
- b. Theme of a poem
- c. Figures of speech

d. Vocabulary

3. Project (20 marks) - The Chief Seattle and the native Americans

- | | |
|----------------------------------|--|
| 1. A Horse and Two Goats (prose) | 2 nd week November |
| 2. Act 2 scene vi & vii | 2 nd , 3 rd &4 th week November |
| 3. Act 2 scene viii & ix | 1 st and 2 nd week December |
| 4. Act 3 scene i | 1 st & 2 nd week January |
| 5. REVISION | 3 rd & 4 th week January |

FINAL EXAMINATION 100 Marks

HINDI-IX

1st Term-Section-A(40 Marks)

(1) भाषा – सरस हिन्दी व्याकरण (तीनों परीक्षाओं के लिए)

1. प्रस्तावना - 1-10
2. चित्र लेखन - 1-3
3. पत्र –क- औपचारिक – 1-3
- ख- अनौपचारिक –14-18
4. भाव ग्रहण - 1-3
5. व्यावहारिक व्याकरण- (संपूर्ण)

Section-B(40 marks)

(2) साहित्य सागर – गद्य - 1. बात अठन्नी की

2. काकी
 3. महायज्ञ का पुरस्कार
- पद्य – 1. साखी
2. गिरिधर की कुण्डलियाँ
 3. स्वर्ग बना सकते हैं

Unit Test – 1. बात अठन्नी की

2. प्रस्तावना
3. व्यावहारिक व्याकरण

Mid Term

Section -A

(1) भाषा – सरस हिन्दी व्याकरण (तीनों परीक्षाओं के लिए)

1. प्रस्तावना - 11-20

2. पत्र –क- औपचारिक – 4-6

ख- अनौपचारिक –19-22

3. व्यावहारिक व्याकरण- (संपूर्ण)

Section-B

(2) साहित्य सागर –गद्य – नेता जी का चश्मा

पद्य – वह जन्मभूमि मेरी

परियोजना कार्य – जीवन में हास्य रस की उपयोगिता

Third Term

Section-A (40 marks)

(1) भाषा – सरस हिन्दी व्याकरण (तीनों परीक्षाओं के लिए)

1. प्रस्तावना - 21-30

2. चित्र लेखन - 7-10

3. पत्र –क- औपचारिक – 7-9

ख- अनौपचारिक –23-26

4. भाव ग्रहण - 9-12

5. व्यावहारिक व्याकरण- (संपूर्ण)

Section-B(40 marks)

(2) साहित्य सागर –गद्य - 1. अपना –अपना भाग्य

2. बड़े घर की बेटी

3. संदेह

पद्य- 1. मेघ आए

2. सूर के पद

3. विनय के पद

3rd, 1st और 2nd Term के संपूर्ण पाठ

Mathematics

First term syllabus

1. **Indices**:-Introduction, Laws of Indices, Simplification of Expressions, Solving Exponential Equations
2. **Expansion** :-Identities, like $(a+b)^2$, $(a-b)^2$, $(a+b)^3$, $(a-b)^3$
3. **Factorisation**:-by taking the common factors, by splitting the Mid Terms, difference of two squares,
sum or difference of two cubes
4. **Simultaneous Equation including word problems**:- Methods of solving simultaneous equations by
substitution, by equating coefficients and cross multiplication. Equations reducible to linear equations,

Problem based on simultaneous equations.
5. **Rational and irrational numbers**:- rational and irrational numbers .representation on number lines,
surds, Rationalization .
6. **Compound Interest without using formula** :-Compound Interest as a repeated simple interest
computation with a growing principle, relation between C.I and S.I,
7. **Compound Interest using formula** :- To find principal, rate, time, and miscellaneous problems.(half
yearly and yearly)
8. **Trigonometrical Ratios**:-Concept of perpendicular, base, and hypotenuse in a right triangles,
reciprocal relations.
9. Trigonometrical Ratios of Standard Angles
10. Solution of right Triangles: miscellaneous problem
11. Complementary Angles:- for sin and cosine

First unit test

1. **Indices**:-Introduction, Laws of Indices, Simplification of Expressions, Solving Exponential Equations
2. **Expansion** :-Identities, like $(a+b)^2$, $(a-b)^2$, $(a+b)^3$, $(a-b)^3$
3. **Factorisation** :-by taking the common factors, by splitting the mid terms, difference of two squares, sum or difference of two cubes

4. Simultaneous Equation including word problems:-Methods of solving simultaneous equations by substitution, by equating coefficients and cross multiplication. Equations reducible to linear equations, Problem based on simultaneous equations.

Second term

12. **Rectilinear figures:**-regular polygon, Quadrilaterals,

13. **Triangles:**-Conditions for congruency of triangles

14. **Isosceles Triangles:**-Different theorems related to this.

15. **Mid Point theorem and its converse:**-Proof and simple application and its converse, Equal intercept

theorem

16. **Pythagoras theorem:**- Proof sums based on it

17. **Circle:**- Arc ,segment and sector, chord properties

18. **Area and perimeter of plane figures:**- Some special types of triangles, Area and perimeter of all types of Quadrilaterals, circumference and area of a circle

19. **Solids:**-cube, cost of an article, cross section ,flow of water

Final term portions

20. **Statistics:**-Variable, tabulation, frequency Distribution, Types of frequency Distributions,

Graphical Representation of Data(Histogram, Frequency Polygon)

21. **Mean and median:**- Exercises related to mean and median,

22. **Co ordinate Geometry:**-Dependent and Independent variables, ordered pair, co- ordinates of points, plotting of points, graphing a linear equation, inclination and slope ,finding the slope and the Y-intercept of a given line.

23. **Graphical solution:**- Graph of linear equation in two variables, solution of simultaneous linear equation graphically,

24. **Distance formula:**-To find distance between two given points, Circumcentre of a triangles

25. **Construction of polygon:**- Construction of quadrilaterals ,regular Hexagon

26. **Area Theorem:**- Figures between the same parallel Triangles with the same vertex and bases along the same line.

27. **Inequalities:**- Introduction and related theorems,

28. **Logarithm:**-interchange of form, Laws of logarithm with use

All the chapters of first term and second terms

Month wise break up

April

1.Indices:-Introduction, Laws of Indices, Simplification of Expressions, Solving Exponential Equations

2.Expansion :-Identities, like $(a+b)^2$, $(a-b)^2$, $(a +b)^3$, $(a-b)^3$

May

3.Factorisation :-by taking the common factors, by splitting the mid terms, difference of two squares, sum or difference of two cubes

4.Simultaneous Equation including word problems:-Methods of solving simultaneous equations by substitution, by equating coefficients and cross multiplication. Equations reducible to linear equations, Problem based on simultaneous equations

5.Rational and irrational numbers:-rational and irrational numbers .representation on number lines,surds,Rationalization

June

5.Rational and irrational numbers:-rational and irrational numbers .representation on number lines,surds,Rationalization .continued.....

6.Compound Interest without using formula :-Compound Interest as a repeated simple interest computation with a growing principle, relation between C.I and S.I,7.Compound Interest using formula :-to find principal, rate, time,and miscellaneous problems.(half yearly and yearly)

7.Compound Interest using formula :-to find principal, rate, time and miscellaneous problems.(half yearly and yearly)

July

8.Trigonometrical ratios:-Concept of perpendicular, base, and hypotenuse in a right triangles, reciprocal relations.

9. Trigonometrical ratios of Standard Angles

10.Solution of right Triangles: miscellaneous problem

11. Complementary Angles:- for sine and cosine

August

12.Rectilinear figures:-regular polygon, Quadrilaterals,

13.Triangles:-conditions for congruency of triangles

September

14. Isosceles Triangles:-Different theorems related to this.

15.Mid Point theorem and its converse:-Proof and simple application and its converse, Equal intercept theorem

16.Pythagoras theorem:-proof sums based on it

October

17. Circle:-arc ,segment and sector, chord properties

18. Area and perimeter of plane figures:- some special types of triangles, Area and perimeter of all types of Quadrilaterals, circumference and area of a circle

November

19. Solids:- Cube, cost of an article, cross section, flow of water

20. Statistics:-Variable, tabulation, frequency Distributiopn, Types of frequency Distibutions, Graphical Representation of Data(Histogram, Frequency Polygon)

21. Mean and madian :- Exercises related to mean and median
22.Co ordinate Geometry:- Dependent and Independent variables, ordered pair, co- ordinates of points, plotting of points, graphing a linear equation, inclination and slope ,finding the slope and the Y-intercept of a given line.

22. Co ordinate Geometry:- Dependent and Independent variables, ordered pair, co- ordinates of points, plotting of points, graphing a linear equation, inclination and slope, finding the slope and the Y-intercept of a given line.

December

23. Graphical solution:-Graph of linear equation in two variables, solution of simultaneous linear equation graphically,

24. Distance formula:-To find distance between two given points, Circumcentre of a triangles

25. Construction of polygon:-construction of quadrilaterals, regular Hexagon

January

26. Area Theorem:-Figures between the same parallels Triangles with the same vertex and bases along the same line.

27.Inequalities :- Introdution and related theorems,

28. Logarithm :-interchange of form, Laws of logarithm with use

February

Revision

Physics

FIRST TERMININAL

Measurement and Experimentation:- (A)systems of units and unit in S.I systems, units of length, mass and time,(c)Measurement of time and simple pendulum.

Motion in One Dimension:-some terms related to motion, Graphical Representation of linear motion, Equation of motion ,Numericals

Laws of Motion:- Contact and Non Contact forces, Newton's first law of motion and inertia

Heat and Energy (revision from class viii)

Reflection of Light (revision from class viii)

First term unit test

Motion in One Dimension:-some terms related to motion, Graphical Representation of linear motion, Equation of motion, Numericals

SECOND TERMINAL EXAM

Laws of Motion:-, Linear momentum and Newton's second law of motion ,Newton's third law of motion, Gravitation

Pressure in fluids and Atmospheric Pressure:-Pressure in fluids and its transmission, Atmospheric pressure and its measurement,

Propagation of Sound Waves(revision from class viii)

THIRD TERMINAL EXAM

Up thrust in Fluids, Archimedes 'Principle and flotation :-Up thrust and Archimedes 's Principle,Relative Density and its measurement by , Archimedes 'Principle

Measurement and Experimentation:- (B)Measurement of length,

Current Electricity (revision from class viii)

Magnetism (revision from class viii)

Months wise break up

April:-Measurement and Experimentation:- (A)systems of units and unit in S.I systems, units of length, mass and time,(c)Measurement of time and simple pendulum.

May Motion in One Dimension:-Some terms related to motion, Graphical Representation of linear motion, Equation of motion ,Numerical

June :-Motion in One Dimension:-Some terms related to motion, Graphical Representation of linear motion, Equation of motion , Numericals

July:-Laws of Motion:- Contact and non contact forces, Newton's first law of motion and inertia
Heat and Energy (revision)

Reflection of Light (revision)

August:-Laws of Motion:- Linear momentum and Newton's second law of motion ,Newton's third law of motion,

September:Laws of Motion:- Gravitation

October

Pressure in fluids and Atmospheric Pressure:-Pressure in fluids and its transmission, Atmospheric pressure and its measurement,

November

Up thrust in Fluids, Archimedes 'Principal and flotation :-Upthrust and Archimedes 's Principle,Relative Density and its measurement by , Archimedes 'Principal

Propagation of Sound Waves (revision)

December

Measurement and Experimentation:- (B)Measurement of length,

Current Electricity (revision)

Magnetism (revision)

February:-revision

CHEMISTRY

FIRST TERM

1. **Study of gas laws:** Behavior of gases under changes of temperature and pressure; Explanation in terms of molecular mass; Boyle's Law and Charles' Law; absolute zero ; gas equation; simple relevant calculations. Relationship between Kelvin scale and Celsius scale of Temperature. Standard temperature and pressure (simple calculations).
2. **Water:** Water as a universal solvent; Hydrated and Anhydrous substances; Drying and dehydrating agents; Soft water and Hard water;

MID TERM:

3. **Periodic Table:** Dobereiner's triads; Newland's law of Octaves; Mendeleev's periodic law Modern Periodic law; Modern Periodic Table; Special reference to Alkali metals, Alkaline Earth metals, Halogens and Zero Group.

THIRD TERM

4. **Atmospheric Pollution:** Acid rain- composition, causes and its effect; Global warming- Green house gases- their sources, ways of reducing their presence in the atmosphere; Ozone depletion; Formation of ozone- relevant equations; Function in the atmosphere; Destruction of ozone layer
5. **Chemical Bonding :** Electrovalent and Covalent bonding; Polar and Non polar Covalent compounds.

Month wise break up:

April-May: The study of Gas laws.

June- July: Water

Aug- Sep: Periodic Table

Oct- CCE

Nov: Atmospheric pollution

Dec: Chemical bonding

First Terminal Examination:. Study of Gas Laws. Water. Hydrogen

Unit Test: Gas Laws [Boyle's Law, Charles' Law]

Mid Term Semester: . Atomic structure and Chemical Bonding

. Language of Chemistry

. Chemical changes and Reactions.

Final Term Examination: All Topics of class IX

Unit Test: Chemical bonding

PROJECT TOPIC: Atmospheric Pollution.

BIOLOGY

FIRST TERM	SECOND TERM	THIRD TERM
*Cell- The unit of life *Five Kingdom Classification *Economic Importance of Bacteria and Fungi *Hygiene *Diseases: Cause and control *Tissues *Nutrition *Digestive System *Skeleton - Movement and Locomotion	*Cell- The unit of life *The Flower *Pollination and Fertilisation *Seeds- Structure and Germination *Respiration in Plants *Aids to Health *Health Organisations *Skeleton-Movement and Locomotion *Skin- The Jack of all Trades *Respiratory System	*Cell- The Unit of life *Tissues- Plant and Animal Tissues *The Flower *Pollination And Fertilisation *Seed- Structure and Germination *Respiration in Plants *Five Kingdom Classification *Economic importance of Bacteria and Fungi *Hygiene *Diseases: Cause and Control *Aids to Health *Health Organisations *Nutrition *Digestive System *Movement and Locomotion *Skin- The jack of all trades *The Respiratory System *Waste Generation and Management

FIRST TERM

April-June 2021

Tissues- Plant and Animal Tissues

- Introduction to Tissues
- Plant Tissues - Meristematic Tissue and Permanent Tissue
- Meristematic tissue – Apical, Intercalary, Lateral Meristem
- Permanent tissues
- Protective tissues
- Supportive Tissues - Parenchyma, Collenchyma and Sclerenchyma
- Conducting tissues - Xylem and Phloem
- Animal tissues
- Epithelial tissues – Squamous, Cuboidal, Columnar, Ciliated, Glandular, Stratified
- Connective Tissue
- Connective tissue proper- Areolar, Adipose and Fibrous
- Supportive Connective Tissue- Cartilage and Bone
- Fluid Connective Tissue- Blood and lymph
- Muscle Tissue - Striated muscles, Unstriated Muscles, Cardiac Muscles
- Nervous tissue

June - July 2021

Nutrition

- Definition
- Need of Nutrition
- Classes of Nutrients
- Balanced diet

Digestive System

- Need for Digestive System
- Parts of the Digestive System
- Structure and Types of teeth with Dental formula
- Peristalsis
- Physiology of digestion and absorption
- Assimilation of food
- Liver

July- August 2021

Skeleton-Movement and locomotion

- Functions of Human skeleton
- Constituents of Skeleton
- Structure of a long bone
- The Human Skeleton
- Axial Skeleton
- Appendicular Skeleton
- Joints and its types
- Muscles and its types

<u>Portion for First Unit Test (20 marks)</u>
<ul style="list-style-type: none">• Cell- The unit of life• Tissues- Plant and Animal Tissues
<u>Portion for First Term Examination (80 marks)</u>
<ul style="list-style-type: none">• Cell- The unit of life• Five Kingdom Classification• Economic Importance of Bacteria and Fungi• Hygiene• Diseases: Cause and control• Tissues: Plant and Animal Tissues• Nutrition• Digestive System• Skeleton-Movement and Locomotion

September- October 2021

Skin - The Jack Of All Trades

- Functions of the skin
- Structure of the skin- Epidermis and Dermis
- Derivatives of the skin
- Skin and Regulation of heat of body.

The Respiratory System

- Need for Respiration
- Glucose as Respiratory Substrate
- Two kinds of Respiration
- Parts of Respiration
- Respiratory Organs (Breathing)
- Blood supply to lungs
- Respiratory cycle
- Control of Breathing movements
- Lung Capacities
- Effects of Altitude on Breathing
- Hypoxia and Asphyxiation
- Some Experiments on Breathing and Respiration

Portion for Second Term Examination (40 marks)

- **Cell- The unit of life**
- **The Flower**
- **Pollination and Fertilisation**
- **Seeds- Structure and Germination**
- **Respiration in Plants**
- **Aids to Health**
- **Health Organisations**
- **Skeleton-Movement and Locomotion**
- **Skin- The Jack of all Trades**
- **Respiratory System**

Project Work-(20 marks)

Topic: "Classification of Plant and Animal Tissues" (Characteristic features and diagrams) in Biology Practical Copy

Note: Explain one type of tissue in one page with its corresponding diagrams.

FINAL TERM

November- December 2021

Waste Generation and Management

- What is Waste?
- Categories of Waste
- Domestic, Industrial, Agricultural, Municipal, E-waste, laboratories waste
- Methods of Safe Disposal of Waste
- Segregation
- Dumping
- Composting

- Drainage
- Treatment of effluents before discharge
- Incineration
- Scrubbers
- Electrostatic Precipitators

Revision

January- February 2022

Revision

Portion for Final Term Examination (100 marks)

- Cell- The Unit of life
- Tissues- Plant and Animal Tissues
- The Flower
- Pollination And Fertilisation
- Seed- Structure and Germination
- Respiration in Plants
- Five Kingdom Classification
- Economic importance of Bacteria and Fungi
- Hygiene
- Diseases: Cause and Control
- Aids to Health
- Health Organisations
- Nutrition
- Digestive System
- Movement and Locomotion
- Skin- The jack of all trades
- The Respiratory System
- Waste Generation and Management

History / Civics

TOPIC

MONTH & WEEK

FIRST TERM

- | | | | |
|----------------------------------|---|--|------------------|
| 1. The Indus Valley Civilization | - | April (3 rd 4 th) | Unit Test |
| 2. Our Constitution | - | April (4 th , May 1 st week) | Unit Test |
| 3. The Renaissance | - | June 1 st , 2 nd week | |
| 4. The Vedic Period | - | June 3 rd , 4 th week | |
| 5. Jainism and Buddhism | - | July 1 st , 2 nd week | |
| 6. Reformation | - | July 3 rd , 4 th week | |
| 7. Elections | - | July 5 th week | |

First Term Examination- All the chapters taught in the First Term

SECOND TERM

- | | | |
|--|--|---|
| 8. Mauryan Empire | | August 3 rd , 4 th week |
| 9. The Sangam Age | September 1 st , 2 nd week | |
| 10. The Age of Guptas | September 2 nd , 3 rd week | |
| 11. Local Self Government- Rural and Urban | September 4 th 5 th week | |

Revision October 1st, 2nd week

Second Term Examination : All the topics taught in second Term - 40 marks

CCE (40 MARKS) : Ranchi Municipal Corporation (Mayor, Deputy

Mayor...Functions)- 10 marks

- 10 marks - 150 WORDS : Any One Play Written by Kalidas
- 10 marks : Kalinga War (The Turning Point in Ashoka's Life)
- 10 marks : Samudragupta 'The Napoleon of India'

Project (20 MARKS) : An Art Integrated Project on Inventions and Innovations of Industrial Revolution (20 marks to be added in the second term)

Date of Submission: 20th AUGUST

THIRD TERM

12. South India and the Cholas	November 2 nd , 3 rd week
13. The Industrial Revolution	November 3 rd , 4 th week
14. The Delhi Sultanate	December 1 st , 2 nd week
15. The Great Mughals	December 3 rd , January 2 nd week
16. Emergence of composite Culture	January 3 rd , 4 th week

Revision

Third Term Examination- Entire Syllabus (all the chapters taught in the first, second and third term)

- **TOPICS IN EACH CHAPTER WILL BE DEALT, AS MENTIONED ON PAGES IV & V OF THE PRESCRIBED TEXT BOOK**

GEOGRAPHY

FIRST TERM

April

Ch.2: Geographic Grid - Latitude and Longitudes.

Concept of latitudes: Main latitudes, their location with degrees, parallels of latitude and their uses, Concept of longitude - Prime meridian, time(local standard and time zones), Greenwich Mean Time and International Date Line. Eastern and Western hemisphere.

June

Ch.3: Rotation and Revolution

Rotation - direction, speed and its effects (occurrence of day and night, the sun rising in the east and setting in the west, Coriolis effect)

Revolution of the Earth and its inclined axis- effects: the variation in the length of day and night and seasonal changes with equinoxes and solstices.

Ch.4: Earth's structure

Core, mantle, crust- meaning, extent and their composition.

July

Ch.7: Volcanoes

Meaning, types – active, dormant, extinct. Effects - Constructive and destructive.
Important volcanic zones of the world.

Ch.8 : Earthquakes

Meaning, causes and measurement.
Effects: Destructive and constructive.
Earthquake zones of the world.

Ch.6: Rocks

Difference between rocks and minerals, types of rocks: igneous, sedimentary, metamorphic - their characteristics and formation; rock cycle.

SECOND TERM

August

Ch 9: Weathering and Denudation

Meaning, types and effects of weathering.
Types: Physical weathering: block and granular disintegration, exfoliation;
Chemical weathering: oxidation, carbonation, hydration and solution;
Biological weathering: caused by humans, plants and animals.

September

Ch.10: Hydrosphere

Meaning of hydrosphere.
Tides – formation and pattern.
Ocean currents- their circulation pattern and effects. (specifically of Gulf Stream, North Atlantic Drift, Labrador Current, Kuro Shio and Oya Shio.)

Ch. 11: The Atmosphere

Composition and Structure of the Atmosphere – Troposphere, Stratosphere, Ionosphere and Exosphere; Ozone in the Stratosphere, its depletion.
Global Warming and its impact.

FINAL TERM

November

Ch.12: Insolation

Meaning of insolation and terrestrial radiation
Factors affecting temperature: latitude, altitude, distance from sea, slope of land, winds and ocean currents.

Ch. 13: Atmospheric Pressure and Winds

Meaning and factors that affect atmospheric pressure.
Major pressure belts of the world.
Factors affecting direction and velocity of wind - pressure gradient, Coriolis Effect.

Permanent winds - Trades, Westerlies and Polar Easterlies.

Periodic winds – Land and sea breezes, monsoons

Local winds – Loo, Chinook, Foehn and Mistral

Variable winds – Cyclones and anticyclones

December

Ch. 14: Humidity and Precipitation

Humidity- meaning and difference between relative and absolute humidity

Condensation – forms: clouds, dew, frost, fog and mist

Precipitation – forms: rain, snow and hail

Types of rainfall - relief/orographic, convectional, cyclonic/frontal with examples from different parts of the world.

January

Ch. 16: Natural Regions of the world

Location, area, climate, natural vegetation and human adaptation.

Equatorial region, Tropical grassland, Tropical Deserts, Tropical Monsoon, Mediterranean,

Temperate grasslands, Tundra and Taiga .

Map work for Final term:

The oceans, Seas, Gulfs and Straits

Rivers

Mountains

Plateaus

Major Natural Regions of the world.

PROJECT: Meteorological instruments and their uses: Six's Maximum and Minimum

thermometer, mercury barometer, aneroid barometer, wind vane, anemometer, rain gauge and hygrometer.

COMPUTER

MONTH	CHAPTERS
April	Introduction to Java OOP : Elementary concepts of objects and classes. Class as a specification for objects and as an object factory. Computation as message passing/function calls between objects(many examples to be done to illustrate this). Class as a user defined type. .
June	Values and types: Primitive types (like int, float, Boolean etc.) and their representation and ranges. Operation on Primitive values expressions, assignment, attributes.
July	Decision making statements jumping and branching, various forms of if..else, if..else., switch..case Use of ternary operators,
August	Functions : Use of functions, types, parts, function parameters, passing parameters by values.(programming and theoretical examples)
Sept.	Loops : Use of for loop, while loop Use of do..while in making java program both known and unknown iterations.
	Mathematical Functions used in Java

October Nov.	Database packages : need for database management, creatin and saving a database performing calculations, modifying the structure of a database sorting, indexing, querying, mailing labels report generations object linking an embedding, creating applications.
Dec.	Programming based on loop Program based on series, Pattern, number system ,general questions.
January	Programming in Java REVISION

PROJECT : OOPS & JAVA