

S.H.I.P.S.
A Premier Institution
Course of Study for Grade XI (Science), 2023-24

ENGLISH

APRIL

Reading: Notes Making
Writing: Advertisement, Poster
Grammar : Determiners, Tenses
Literature: - The Portrait of a Lady, A Photograph, Laburnum Top
ASL Introduction of self, Narration of short story

MAY

Reading: Reading Passage
Writing: Speech Writing
Grammar: Modals
Literature: The Summer of beautiful white horse, The Address
ASL Best Friend, Family

JULY

Reading: Reading passage, Notes Making
Writing: Advertisement, Posters, Speech Writing
Grammar : Determiners, Tenses, Modals
Literature: Childhood, We are not afraid to die, Discovering Tut
ASL Listening Activity cum Speaking

AUGUST

Reading : Reading Passage, Notes Making
Writing: - Advertisement, Posters, Speech Writing
Grammar : Clauses
Literature: Voice of Rain, Father to son, Adventure
ASL Listening Activity cum Speaking

SEPTEMBER

TERM-1 (Revisions)

OCTOBER

Reading : Reading Passage, Notes Making
Writing: - Advertisement, Posters, Speech Writing
Grammar : Active and Passive Voice
Literature: Mother's Day, Birth
ASL Situational Questions

NOVEMBER:

Reading : Reading Passage
Writing: - Advertisement, Posters, Speech Writing
Grammar : Cloze filling, Jumbled Sentences
Literature: Silk Road
ASL Situational Questions

DECEMBER

Reading :	Reading Passage
Writing: -	Advertisement, Posters, Speech Writing
Grammar :	Transforming of sentences, Editing
Literature:	Tale of Melon City
ASL	Situational Questions

PUNJABI

ਅਪ੍ਰੈਲ

ਦੰਤ ਕਥਾ - ਪੂਰਨ ਭਗਤ, ਲੋਕ ਗੀਤ - ਸੁਹਾਗ
ਪੱਤਰ, ਇਸ਼ਤਿਹਾਰ (1-10)
ਮੁਹਾਵਰੇ, ਬੈਂਕ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ

ਮਈ

ਦੰਤ ਕਥਾ - ਰਾਜਾ ਰਸਾਲੂ, ਦੁੱਲਾ ਭੱਟੀ
ਲੋਕ ਗੀਤ - ਘੋੜੀਆਂ, ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ
ਪੱਤਰ, ਲੇਖ, ਰੇਲਵੇ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ

ਜੁਲਾਈ

ਲੋਕ ਗੀਤ - ਬੋਲੀਆਂ
ਇਸ਼ਤਿਹਾਰ (11-20), ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ, ਮੁਹਾਵਰੇ

ਅਗਸਤ

ਲੋਕ ਗੀਤ - ਟੱਪੇ, ਸੱਦਾ ਪੱਤਰ (1-6)
ਮੁਹਾਵਰੇ, ਪੱਤਰ, ਲੇਖ

ਸਤੰਬਰ

Term 1 ਪ੍ਰੀਖਿਆ

Unit Test-1 : ਦੰਤ ਕਥਾ - ਪੂਰਨ ਭਗਤ, ਲੋਕ ਗੀਤ - ਸੁਹਾਗ
ਇਸ਼ਤਿਹਾਰ (1-10), ਮੁਹਾਵਰੇ, ਬੈਂਕ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ, ਪੱਤਰ, ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ

ਅਕਤੂਬਰ

ਪ੍ਰੀਤ ਕਥਾ - ਗੀਰ ਰਾਂਝਾ, ਲੋਕ ਗੀਤ - ਸਿੱਠਣੀਆਂ
ਵੱਖ ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਤ ਸ਼ਬਦਾਵਲੀ, ਡਾਕ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ
ਮੁਹਾਵਰੇ, ਸੱਦਾ ਪੱਤਰ (7-12), ਪੱਤਰ

ਨਵੰਬਰ

ਪ੍ਰੀਤ ਕਥਾ - ਮਿਰਜ਼ਾ ਸਾਹਿਬਾ, ਲੋਕ ਸਾਹਿਤ - ਢੇਲਾ
ਪੱਤਰ, ਲੇਖ- ਕੰਪਿਊਟਰ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ

ਦਸੰਬਰ

ਲੋਕ ਸਹਿਤ - ਮਾਹੀਆ, ਬੁਝਾਰਤਾਂ

ਲੇਖ, ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਤ ਵਾਕ

ਜਨਵਰੀ

ਫਰਵਰੀ

ਦੁਹਰਾਈ

ਮਾਰਚ

Term 2 ਪ੍ਰੀਖਿਆ।

PHYSICAL EDUCATION

APRIL

Chapter 1 – Changing Trends and Career in Physical Education

Chapter 2 – Olympism

MAY

Chapter 3 - Yoga

PRACTICAL WORK

Physical Fitness Test : Sai Khelo India Test

JUNE

PRACTICAL WORK

Brockport Physical Fitness Test

Athletics

JULY

Chapter 4 – Physical Education and Sports for CWSN

Chapter 5 – Physical Fitness, Health and Wellness

AUGUST

Chapter 6 – Test, Measurement and Evaluation

SEPTEMBER

Chapter 7 - Fundamentals of Anatomy and Physiology in Sports

Chapter 8 – fundamentals of kinesiology and biomechanics in sports

OCTOBER

Chapter 9 – psychology and Sports

Chapter 10 – Training and Doping In Sports

NOVEMBER

PRACTICAL FILE

Proficiency in Games and Sports

(Skill of any one IOA recognised Sports/ Game of choice)

PHYSICS

Term-1

APRIL

Ch-2 Units and Measurements

Ch-3 Motion in Straight Line

MAY

Ch-4 Motion in Plane

Ch-5 Laws of Motion

JULY

Ch-6 Work, Energy and Power

Ch-7 Motion of System of Particles and Rigid Body

AUGUST

Ch-8 Gravitation

Ch-9 Mechanical Properties of Solid

SEPTEMBER

Term-2

OCTOBER

Ch-10 Mechanical Properties of Fluid

Ch-11 Thermal Properties

NOVEMBER

Ch-12 Thermodynamics

Ch-13 Behaviour of Perfect Gases and Kinetic Theory of Gases

DECEMBER

Ch-14 Oscillations

JANUARY

Ch-15 Waves

FEBRUARY

Revision

MARCH

SYLLABUS FOR PRACTICALS

APRIL

To measure diameter of spherical bob using vernier callipers

May

To find diameter and depth of beaker using vernier calliper

JULY

To measure thickness of sheet using screw gauge

AUGUST

To find volume of lamina using screw gauge

OCTOBER

To find force constant of helical spring by plotting graph between load and extension

NOVEMBER

To find mass of two unknown objects using beam balance

DECEMBER

To using simple pendulum, plot $l-t^2$ graph and find value of acceleration due to gravity

JANUARY

To study variation of time period of simple pendulum of given length but different masses

Term-1

Ch-2 Units and measurement

Ch-3 Motion in straight line

Ch-4 Motion in plane

Ch-5 Laws of motion

Ch-6 Work, power and energy

Ch-7 Motion of system of particles

Ch-8 Gravitation

CHEMISTRY

APRIL

Unit. 1. Some basics concepts of chemistry

MAY

Unit.2. Structure of atom

Unit.3. Classifications of elements and periodicity in properties

JULY

Unit.4. Chemical bonding and molecular structure

Unit.8. Redox reactions (half)

AUGUST

Unit.8. Redox reactions (remaining half)

Unit.6. Chemical Thermodynamics

SEPTEMBER

Term-1 Examination

Term-2

OCTOBER

Unit.7. Equilibrium

NOVEMBER

Unit.12. Organic Chemistry-Some basic principles and Technique

DECEMBER

Unit.13. Hydrocarbons

JANUARY

Revision

FEBRUARY

Revision

MARCH

Term II Examination

MATHEMATICS

APRIL

Unit : Sets and Functions

Sets (Chapter 1)

Relations and functions (Chapter 2)

MAY

Unit : Sets and Functions

Trigonometric functions (Chapter 3)

Unit : Algebra

Complex Numbers and Quadratic equations (Ch-5)

JULY

Unit : Algebra

Linear Inequalities (Ch-6)

Permutations and Combinations (Ch-7)

AUGUST

Unit : Algebra

Binomial Theorem (Ch-8)

Sequence and Series (Ch-9)

SEPTEMBER/OCTOBER

Unit: Coordinate Geometry

Straight Lines (Ch-10)

Conic Section (Ch-11)

Introduction to 3D (Ch-12)

NOVEMBER

Unit: Calculus

Limits and Derivatives

DECEMBER/JANUARY

Unit : Statistics Probability

Statistics (Ch-15)

Probability (Ch-16)

BIOLOGY

APRIL

- Ch.1 The Living World
- Ch.2 Biological classification

MAY

- Ch.3 Plant Kingdom
- Ch.5 Morphology of flowering plants

JULY

- Ch.6 Anatomy of flowering plants
- Ch.7 St. organisation in Animals

AUGUST

- Ch.15 Plant growth & Development
- Ch.13 Photosynthesis in plants
- Ch.14 Respiration in plants

OCTOBER

- Ch. 4 Animal Kingdom.
- Ch. 8 Cell - The unit of Life

NOVEMBER

- Ch.10 Cell cycle and cell Division
- Ch. 9. Biomolecules

DECEMBER

- Ch.17 Breathing and Exchange of gases
- Ch.18 Body Fluid
- Ch. 19 Excretory Products
- Ch. 20 Locomotion and Movement

JANUARY

- Ch. 21 Neural control & coordination
- Ch-22 Chemical coordination

Syllabus of Practicals

Time: 03 Hours.

M.Mark30

Evaluation Scheme

One Major Experiment Part A	5M
One Minor Experiment Part A	4M
Slide Preparation Part A	5M
Spotting Part B.	7M
Practical Record + Viva Voce.	4M
Project Record + Viva Voce.	5M

Part - A

A: List of Experiments

1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).
2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).
3. Study of osmosis by potato osmometer.
4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).
5. Study of distribution of stomata on the upper and lower surfaces of leaves.
6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.
7. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.
8. Separation of plant pigments through paper chromatography.
9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

Part - B

Study and observe the following

(Spotting)

1. Parts of a compound microscope.
2. Specimens/slides/models and identification with reasons -Bacteria, Oscillatoria, moss, fern, pine, Spirogyra, Rhizopus, mushroom, yeast, liverwort, monocotyledonous plant, one dicotyledonous plant and one lichen.
3. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
4. Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.
5. Different types of inflorescence (cymose and racemose).
6. Human skeleton and different types of joints with the help of virtual images/models only.

INFORMATION TECHNOLOGY

Term 1 Syllabus

APRIL

Part B: Unit I: Computer Organisation
Part B: Unit III: Office Automation Tools (Writer)
Test -1

MAY

Part B: Unit II: Green Skills
Part B: Unit: III Electronic Spread sheet
Test – 2

JUNE

UNIT TEST I (Part A: Unit III and Part B: Unit I and II)

JULY

Part A: Unit II: Self-Management Skills

Part B: Unit IV: RDBMS

Test -3

AUGUST

Part A: Unit IV: Entrepreneurial Skills

Practical (RDBMS and Spread sheet)

SEPTEMBER

Term I

OCTOBER

Part A: Unit III: ICT Skills

Part B: Unit: II: Networking and Internet

NOVEMBER

Revision for Prelims

Prelims I/Term I

DECEMBER

Part B: Unit V: Fundamentals of JAVA

JANUARY

Revision

FEBRUARY

Term II