

DELHI PUBLIC SCHOOL JAMMU
SESSION-2021-2022
YEARLY SYLLABUS

CLASS-X

SUBJECT : SCIENCE

OBJECTIVES:-

1. To provide the broader objectives of science that is process, skill, knowledge, curiosity etc.
2. To encourage and enable students to develop inquiring minds and curiosity about science and nature.
3. To communicate scientific ideas, arguments, and practical experiences accurately in a variety of ways.
4. To think analytically, critically and creatively to solve problems.
5. To acquire knowledge, conceptual understanding and skills to solve problems and make informed decisions in scientific contents.
6. To understand the nature of science, and technology and society including the benefits and limitations of science and its applications in developments.
7. To enable the learner to review, organise and edit their own work and work done by peers.
8. To develop skills of scientific inquiry to design and evaluate scientific evidence to draw conclusions.

PHYSICS

S.NO.	MONTH	NAME OF THE LESSON
1.	APRIL	L-12 Electricity + Practicals
2.	MAY	L-11 Human Eye and Colourful World +Practicals
3.	JUNE+JULY	L-14 Sources of Energy and Revision
4.	AUG+SEPT	L-14 Sources of Energy and Revision (Contd.)
5.	OCTOBER	L-10 Light – reflection and refraction +Practicals
6.	NOVEMBER	L-13 Magnetic Effect of current
7.	DECEMBER	Revision + Pre Board-1
8.	JANUARY	Practicals and Pre-Board-2
9.	FEBRUARY	Doubt Clearing Sessions

SYLLABUS FOR FORMATIVE ASSESSMENT -1

L-10 Light-Reflection and Refraction + Practical's

SYLLABUS FOR HALF YEARLY

L-10 Light-Reflection and Refraction + Practical's

L-11 Human Eye and Colourful World + Practical's

L-14 Sources of Energy

PRE-BOARD-I

L-10 Light-Reflection and Refraction + Practical's

L-11 Human Eye and Colourful World + Practical's

L-14 Sources of Energy

L-12 Electricity + Practical's

PRE-BOARD-II

L-10 Light

L-11 Human Eye and colourful world + Practical's

L-14 Source of Energy

L-12 Electricity + Practical's

L-13 Magnetic Effects

PRACTICAL'S COVERED APRIL + MAY

1. Determination of the focal length of (i) Concave Mirror (ii) Convex Lens by obtaining the image of distant object.
2. Finding the image distance for varying object distance in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed.

AUGUST AND SEPTEMBER

- 1 Tracing the path of the ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
2. Tracing the path of the rays of light through a glass prism.

NOVEMBER

1. Studying the potential difference (v) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between v and I .
2. Determination of the equivalent resistance of two resistors when connected in (a) series and (b) parallel.

ENRICHMENT ACTIVITY

1. Ohm's law and study various electrical devices connected in Ohm's Law
2. Faraday's law of electromagnetic induction and its experimental verification

SUBJECT : CHEMISTRY

S.NO.	MONTH	NAME OF THE LESSON
1.	APRIL	Chemical Reactions and Equations
2.	MAY+JUNE	Acids, Bases and Salts + Practicals
3.	JULY	Acids, Bases and Salts (Contd.)

4.	AUGUST	Metals and Non Metals (Contd.) +Practicals
5.	SEPTEMBER	Metals and Non Metals (Contd.) +Revision
6.	OCTOBER	Periodic Classification of Elements
7.	NOVEMBER	Carbon and its Compounds + Revision
8.	DECEMBER	Preboard-1
9.	JANUARY	Revision + Pre-Board-2
10.	FEBRUARY	Doubt Clearing Sessions

SYLLABUS FOR FORMATIVE ASSESSMENT -1

Chemical Reactions and Equations

SYLLABUS FOR (HALF YEARLY EXAMS)

1. Chemical Reactions and Equations
2. Acids, Bases and Salts + Practical
3. Metals and Non-Metals + Practical

PRE-BOARD-I

1. Chemical Reactions and Equations
2. Acids, Bases and Salts + Practical
3. Metals and Non-Metals + Practical
4. Periodic Classification of elements

PRE-BOARD-II

1. Chemical Reactions and Equations
2. Acids, Bases and Salts + Practical
3. Metals and Non-Metals + Practical
4. Periodic Classification of elements
5. Carbon and its compounds + Practical

ENRICHMENT ACTIVITIES TERM-I

1. To study the properties of acids and bases (HCl and NaOH) by their reaction with
 - a) Litmus solution (Blue/Red)
 - b) Zinc metal
 - c) Solid sodium carbonate.

TERM-II

2. To study the following properties of acetic acid
 - i) Odour
 - ii) Solubility in water
 - iii) Effect on litmus
 - iv) Reaction with sodium bicarbonate
3. To study the comparative Cleansing action of a sample of soap in soft and hard water.

SUBJECT : BIOLOGY

<i>S.NO.</i>	<i>MONTH</i>	<i>NAME OF THE LESSON</i>
1.	APRIL	Life Processes
2.	MAY	Life Processes (Contd.) + Practicals
3.	JULY	Control and Co-ordination
4.	AUGUST	Control and Co-ordination
5.	SEPTEMBER	How do organism reproduce?+Practicals
6.	OCTOBER	Heredity and Evolution + Practicals
7.	NOVEMBER	Management of Natural Resources Our Environment
8.	DECEMBER	Revision + Preboard 1
9.	JANUARY	Revision + Preboard 2
10.	FEBRUARY	Doubt Clearing Class

SYLLABUS FOR FORMATIVE ASSESSMENT -1

Life Processes (Photosynthesis, Digestion and Respiration)

SYLLABUS FOR (HALF YEARLY EXAMS)

1. Life Processes+Practicals
2. Control and Co-ordination

PRE BOARD-1

1. Life Processes + Practicals
2. Control and Co-ordination
3. How do organism Reproduce? + Practicals

PRE-BOARD-II

1. Life Processes+ Practicals
2. Control and Co-ordination
3. How do organisms Reproduce? + Practicals
4. Heredity and Evolution + Practicals
5. Our Environment
6. Natural Resources

ENRICHMENT ACTIVITIES TERM-I

1. To prepare a temporary mount of a leaf peel to show stomata.