

DELHI PUBLIC SCHOOL JAMMU
SESSION-2022-23
YEARLY SYLLABUS

CLASS-IX

SUBJECT SCIENCE

OBJECTIVES:-

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

SUBJECT : PHYSICS

S.NO.		MONTH	NAME OF THE LESSON/TOPIC
1		APRIL	Motion
2		MAY	Motion and its numericals (Contd.)
3		JUNE+JULY	Force and laws of Motion
4		AUGUST	Work and Energy
5		SEPTEMBER	Work and Energy
6		OCTOBER	Gravitation
7		NOVEMBER	Floatation and its numericals
8		DECEMBER	Sound
9		JAN	Revision of all chapters
10.		FEBRUARY	Revision

SYLLABUS FA-1

1. Motion

SYLLABUS FOR HALF YEARLY EXAMINATION

1. Motion,
2. Force Laws of Motion

SYLLABUS OF FA-2

1. Gravitation + Floatation

SYLLABUS FOR FINAL EXAMINATION

1. Gravitation and Floatation
2. Work and Energy.
3. Motion
4. Force & Laws of motion

SUBJECT ENRICHMENT :(HALF YEARLY)

1. Determine the density of solid by using spring balance and a measuring cylinder.
2. Establishing the relation between the loss in weight of a solid when immersed in a tap water and strongly salt water, with the weight of water displaced by it by taking at least two different solids.

(FINAL EXAMINATION)

1. Determine the speed of a pulse propagated through a stretched string/slinky.
2. Verification of Laws of Reflection by sound.

SUBJECT : CHEMISTRY

S.NO.	MONTH	NAME OF THE LESSON/TOPIC
1	APRIL	Matter in our surroundings
2	MAY	Matter in our surroundings (Contd.)
3	JULY	Is matter around us pure
4	AUGUST	Is matter around us Pure (Contd) +Practicals
5	SEPTEMBER	Is matter around us Pure (Contd)
6	OCTOBER	Atoms and Molecules
7	NOVEMBER	Atoms and molecules

8	DECEMBER	Structure of Atom
9	JANUARY	Structure of Atom
10	FEBRUARY	Revision

SYLLABUS FOR FA-1

1. Matter in our surroundings

SYLLABUS FOR HALF YEARLY EXAMINATION

1. Matter in our surroundings
2. Is Matter around us Pure + Practicals

SYLLABUS FOR FA-2

1. Atoms and molecules

SYLLABUS FOR FINAL EXAMINATION

1. Atoms and Molecules + Practicals
2. Structure of Atom

ENRICHMENT ACTIVITIES

HALF YEARLY

1. To determine the melting point of ice and boiling point of water.

FINAL EXAMINATION

1. To carry out the following reactions and classify them as physical or chemical changes.
 - a) Iron with copper sulphate solution in water.
 - b) Burning of magnesium ribbon in air.
 - c) Zinc with dilute sulphuric acid.
 - d) Heating of copper sulphate crystals.
 - e) Sodium sulphate with barium chloride in the form of their solutions in water.

SUBJECT : BIOLOGY

S. No.	MONTH	NAME OF THE LESSON/TOPIC
1	APRIL	Fundamental unit of life (Practical)
2	MAY	Fundamental unit of life cell (contd.)
3	JULY	Tissues + Practicals
4	AUGUST	Tissues(contd.)
5	SEPTEMBER	Tissues + Practicals
6	OCTOBER	Food Production
7	NOVEMBER	Food Production (Contd.)
8	DECEMBER	Food Production(Contd.)
9	JANUARY	Revision
10	FEBRUARY	Revision

SYLLABUS FOR FA-1

1. Fundamental unit of life

SYLLABUS FOR HALF YEARLY EXAMINATION

1. Fundamental unit of life
2. Tissues

SYLLABUS FOR FA-2

1. Food Production

SYLLABUS FOR FINAL EXAMINATION

1. Food Production

PRACTICALS:

1. Preparation of stained mounts of onion peel and draw labelled diagrams.
2. Identification of Parenchyma, Collenchyma and sclerenchyma tissues in plants, striped, smooth and cardiac muscles fibres and nerve cells in animals, from prepared slides. Draw their labeled diagrams.