

DELHI PUBLIC SCHOOL JAMMU

SESSION-2021-2022

YEARLY SYLLABUS BIFURCATION

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	: Gravitation and its numericals
8	DECEMBER	Sound
9	JAN+FEB	: Sound (Contd.) + Practicals
10.	FEBRUARY	: Doubt Clearing Session and Revision

**SYLLABUS FOR FORMATIVE ASSESSMENT-1**

1.Motion

SYLLABUS FOR HALF YEARLY EXAMINATION

1. Motion
2. Forces and Laws of Motion
3. Work and Energy

SYLLABUS FOR FORMATIVE ASSESSMENT-2

1.Motion, Force and Laws of Motion, Work and Energy,Gravitation

## SYLLABUS FOR ANNUAL EXAMINATION

1. Motion
2. Forces and Laws of Motion
3. Work and Energy
4. Gravitation and Sound

### SUBJECT ENRICHMENT

#### *TERM-1*

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.

#### *TERM-II*

1. Determine the speed of a pulse propagated through a stretched string/slinky.

## 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) + Atoms and Molecules

### **SYLLABUS FOR FORMATIVE ASSESSMENT -I**

1. Matter in our surroundings

### **SYLLABUS FOR HALF YEARLY EXAMINATION**

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

### **SYLLABUS FOR FORMATIVE ASSESSMENT -2**

1. Matter in our surroundings
2. Is Matter around us Pure + Practical
3. Atoms and Molecules (Till formula unit mass)

### **SYLLABUS FOR ANNUAL EXAMINATION**

1. Matter in our surroundings
2. Is Matter around us Pure + Practicals
3. Atoms and Molecules + Practicals
4. Structure of Atom

### **ENRICHMENT ACTIVITIES TERM -1 :**

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.

**TERM-II**

2. To verify the law of conservation of mass in a chemical reaction.
3. To determine the melting point of ice.

**SUBJECT : BIOLOGY**

S.NO.	MONTH	NAME OF THE LESSON/TOPIC
1	APRIL	Fundamental unit of life (Practical)
2	MAY	Tissues + Practicals
3	JULY	Tissues + Practicals
4	AUGUST	Improvement in food resources + Revision of Half Yearly Chapters.
5	SEPTEMBER	Why do we fall ill? + Practicals
6	OCTOBER	Why do we fall ill? Contd.
7	NOVEMBER	Natural Resources
8	DECEMBER	Natural Resources
9	JANUARY	Diversity in living organisms
10.	FEBRUARY:	Diversity in living organisms (Contd.) + Practicals

**SYLLABUS FOR FORMATIVE ASSESSMENT -1**

1. Fundamental unit of life

**SYLLABUS FOR HALF YEARLY EXAMINATION**

1. Fundamental unit of life
2. Tissues
3. Improvement in food resources (Practicals)

**SYLLABUS FOR FORMATIVE ASSESSMENT-2**

1. Fundamental unit of life
2. Tissues
3. Why do we fall ill?

**SYLLABUS FOR ANNUAL EXAMINATION**

1. Fundamental unit of life
2. Tissues
3. Improvement in food resources
4. Why do fall ill?
5. Diversity in living organisms
6. Natural Resources

*ENRICHMENT ACTIVITY*

**TERM -1** : 1.To prepare a temporary slide of onion peel and draw labelled diagrams.

**TERM-II** : To study the characteristic of spirogyra /Agaricus, Moss/