

1. **Subject :Science**

2. **Objectives:** The teaching of Science, at this stage, will help the learners to:-

- Recognise, identify and strengthen the unique capabilities of each student in science.
- Understand the international nature of science and the interdependence of science, technology and society, including the benefits, limitations and implications imposed by social, economic, political, environmental, cultural and ethical factors.
- Think analytically, critically and creatively to solve problems, judge arguments and make decisions in scientific and other contexts.
- Appreciate the contribution of science towards development and progress in all fields of life.
- Acquire the knowledge of scientific terms, facts, definitions, processes, concepts, principles and laws.
- Develop skills of scientific inquiry to design and carryout scientific investigations and evaluate scientific evidence to draw conclusions.
- Develop measurement and observational skills and to encourage the use of locally available resources, Inculcate science and technology related values; Recognise the relationship of science, technology and society.
- Demonstrate attitude and develop values of honesty and respect for themselves, others, and their shared environment.
- Engage with the processes of Science like observing, recording observations, drawing, tabulation, plotting graphs, etc.
- Communicate scientific ideas, arguments and practical experiences accurately in a variety of ways
- Be effective in quantitative reasoning so as to occupy a more central place in the teaching and learning of Science.
- Understand the relationship of chemical substances, its properties, and their application in life, content, process and the language of chemistry teaching to communicate with the learner's age laboratory skills in chemistry, safe consciousness in practicing chemistry in school and life

3. Month Wise Syllabus

PHYSICS

Chapter Number	Name of the Chapter	Month
9	Light reflection and refraction	April. May
10	Human Eye and colorful World	July
11	Electricity	August
12	Magnetic effect of electric current	October. November

CHEMISTRY

Chapter Number	Name of the Chapter	Month
1	Chemical Reactions and equations till page 11	April
1	Chemical Reactions and equations	May
2	Acids, Bases and Salts till page 28	July
2	Acids, Bases and Salts	August
3	Metals and Non-metals Periodic classification of elements	October
4	Carbon and its compounds	November

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BIOLOGY

Chapter Number	Name of Chapter	Month
5	Life Processes	April
6	Control and Co-ordination	May
7	Reproduction	July/ August
8	Heredity and evolution	August
13	Our Environment	October/ November

4. Scheme of assessment & weightage:

Sr.No .	Assessment cycle	Month of Assessment
1	PT1	May
2	PT2	July/August
3	Half Yearly	September
4	PT3	October/November
5	PT4(PAT)	December
6	Pre- Boards	January
7	Finals	February/March

5. Curriculum Content for Various assessments:

Sr.No.	Assessment cycle	Chapter Number
1	PT1	Physics: Chapter 9 (Light reflection and refraction) Biology: Chapter 5 Life Processes Chemistry: Chapter 1
2	PT2	Physics: Chapter 10(Human eye and colorful world: Till 10.3) Biology: Chapter 6 (Control and coordination) Chapter 7 Reproduction (Topic: 7.2) Chemistry :Chapter (till page 28)
3	Half Yearly	Physics: Chapter 9,10,11(Electricity) Biology: Chapter – 5, 6, 7 Chemistry : Chapter 1,2
4	PT3	Physics: Chapter 13 Magnetic effect of electric current Biology: Chapter 8(Heredity and evolution), Ch-13(topic 13.1) Chemistry : Chapter 3
5	PT4(PAT)	Full Syllabus
6	Pre- Board exams	Full Syllabus
7	Final exams	February/March

Note: Paper pen tests will consist of multiple choice questions, Assertion -Reason questions, SA, LA, Case study based questions.

For academic session 2023-24.

Composition of Question Paper for year- end examination/ board examination theory shall be based on the following:

- **Competency focused questions in the form of MCQ, case study questions, source based integrated questions or any other type = 50%.**
- **Select response type questions (MCQ) is =20%.**
- **Constructed response questions, short answer, long answer type questions = 30%.**

6. Internal Assessment Break-up:

Sr. No .	Type of Assessment	Mode of Assessment	Weight age
1	Periodic Test	Pen paper Test	5
2	Multiple Assessment	Assessment through different modes to assess various competencies	5
3	Enrichment Activity	Assessment through different practical activities and lab record	5
4	Portfolio	Notebook/Assignments/Worksheets/Trans -Disciplinary Project	5

7. CRAB worksheets per chapter will be assigned.

8. Prescribed books:

1. NCERT

2. New way lab book and record

3. MTG Science for Physics , Chemistry and Biology