

# ROADMAP FOR CLASS 9

## SESSION 2023-24

**1. Subject:** Science

**2. Objectives:**

The objectives of study of sciences are to encourage and enable students to acquire, develop and inculcate the following Skills:

- To Develop Process scientific skills of Observing, Classifying, Measuring, making inferences, Predicting, Using and handling science apparatus correctly and safely.
- Develop skills of scientific inquiry to design and carry out scientific investigations and evaluate scientific evidence to draw conclusions
- Communicate scientific ideas, arguments and practical experiences accurately in a variety of ways
- Acquire knowledge, conceptual understanding and skills to solve problems and make informed decisions in scientific and other contexts
- Think analytically, critically and creatively to solve problems, judge arguments and make decisions in scientific and other contexts
- 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
- Demonstrate attitudes and develop values of honesty and respect for themselves, others, and their shared environment.
- Develop well-defined abilities in cognitive, affective and psychomotor domains in children which augments the spirit of enquiry, creativity, objectivity and aesthetic sensibility.
- Be effective in quantitative reasoning so as to occupy a more central place in the teaching and learning of science.
- Develop the skill of aesthetic presentation of art integration.
- The present syllabus has been around **seven** broad themes viz.

Materials, The World of The Living, How Things Work, Moving Things, Causes of motion, People and Ideas, Natural Phenomenon and Natural Resources.

**3. Month wise division of syllabus:**

Chapter Number	Name of the Chapter	Month
<b>PHYSICS</b>		
7	Motion	April-May
8	Force and laws of Motion	May-July
9	Gravitation	July-August
10	Work and energy	October
11	Sound	December
<b>CHEMISTRY</b>		
1	Matter in our surroundings	April
2	Is matter around us pure	May to July
3	Atoms and Molecules	August, October
4	Structure of Atom	November
<b>BIOLOGY</b>		
5	Fundamental unit of life	April
6	Tissues	May-July
12	Improvement in food resources	August, October

**4. Scheme of assessment & weightage:**

Sr. No.	Assessment Cycle	Month of Assessment	Mode of Assessment	Weightage
1	PT1	May	Pen paper Test	40
2	PT2	July/August	Pen paper Test	40
3	Half YEARLY	September	Pen paper Test	80
4	PT3	October/November	Pen paper Test	40
5	PAT	January	Pen paper Test	80
6	Final	February/March	Pen paper Test	80

## 5. Curriculum Content for various assignments:

### PERIODIC 1(May)

M.M 40

Physics:	Motion	Lesson No. 7 (before topic 7.4)
Chemistry:	Matter in our surroundings	Lesson No. 1 (before topic 1.4)
Biology:	Fundamental unit of life	Lesson No. 5 (before topic 5.2.4)

### PERIODIC 2 (July/August)

M.M 40

Physics:	Motion	Lesson No. 7 (after topic 7.3)
Chemistry:	Matter in our surroundings	Lesson No. 1 (after topic 1.3)
Biology:	Fundamental unit of life	Lesson No. 5 (after topic 5.2.3)

### Half yearly (September)

M.M 80

Physics:	Force and laws of Motion	Lesson No. 8
	1st Half of gravitation	Lesson No. 9
Chemistry:	Is matter around us pure	Lesson No. 2
Biology:	Tissues	Lesson No. 6

### PERIODIC 3 (November)

M.M 40

Physics:	2nd Half of Gravitation (Floatation)	Lesson No. 9
	Work and energy	Lesson No. 10
Chemistry:	Atoms and Molecules	Lesson No. 3
Biology:	Improvement in food resources	Lesson No. 12

### PAT (January)

Physics:	Full syllabus
Chemistry:	Full syllabus
Biology:	Full syllabus

**Note: Paper pen tests will consist of MCQ's, Assertion reason based, VSA, SA, LA, Case Based, LOTs, HOTs questions of 1,2 3 ,4& 5 marks weightage**

**6. Internal Assessment Break-up:**

Sr. No.	Type of Assessment	Mode of Assessment	Weightage
1	Periodic Test	Pen paper Test	5
2	Multiple Assessment		5
3	Enrichment Activity		5
4	Portfolio		5

**7. CRAB Worksheets per chapter will be assigned.****8. Prescribed books:**

Science - Textbook for class IX -NCERT Publication

Laboratory Manual - Science - Class IX

Suggested Books:

Exemplar Problems Class IX - NCERT Publication