

SEBA Board Class 9 Science Syllabus

SCIENCE PRACTICAL

Class - IX

List of Experiments (Class - IX)

Sl. No. **BIOLOGY**

1. Demonstration of different parts of one Dicot and one Monocot plant.
2. Identification of plants
3. Morphological study of Honey bee/Ant/Fish/Spider/ Mollusca
4. Charts on :
 - (i) Animal Cell
 - (ii) Plant cell.
 - (iii) Types of tissues.
 - (iv) List of three bacterial and two protozoal diseases with their symptoms.

PHYSICS :

1. To determine velocity and acceleration of a moving body.
2. To Verify Newton's Second Law of Motion.
3. To Study variation of Potential Energy with height.
4. To measure temperature of liquid at various state in Celsius and Fahrenheit scale.

CHEMISTRY :

1. To prepare sulphide from iron filings and sulphur powder and to observe the changes in the properties on the constituent elements as they combine to form the compound.
3. To separate the components from mixture of (a) sand and ammonium chloride (b) Common salt and sand.
4. To Study the extent of cooling caused by evaporation on (i) Water (ii) Ethanol (alcohol) (iii) Ether.
5. To determine the Boiling point of water.

List of equipments and materials (Class-IX)

BIOLOGY :

1. Freshly collected paddy plant with roots, stem and leaves intact.
2. White drawing sheet.
3. Eraser
4. Scale
5. Freshly collected mustard plant with roots, stem and leaves intact.
6. Specimen of (i) Basket, grass, (ii) Bermuda grass, (iii) Honey bee (worker) (iv) Termite (worker), (v) Butterfly, (vi) Fish, (vii) Spider, (viii) Mollusca

PHYSICS :

1. A small rubber or marble
2. Two small wooden blocks or match-boxes
3. A foot scale
4. A small toy car
5. A few long paper strips
6. Paper clips
7. An inclined plane
8. A timer cup
9. Thread
10. Wire
11. Colored solution or ink
12. A few coins
13. A spring balance
14. Flour paste
15. A stone (Small size)
16. Cellotape
17. Scissors
18. A support with a hook and scale
19. A glass breaker
20. Thermometer
21. Few pieces of ice
22. Tripod stand
23. Water
24. Spirit burner

25. Wire holder

CHEMISTRY :

1. Porcelain basin
2. Tripod stand
3. Iron fillings
4. Sulphur powder
5. Carbon disulphide
6. Bar or horse shoe magnet
7. Test tubes (3 nos)
8. Beakers (3 nos)
9. Funnel
10. Filter paper
11. Bottle of distilled water
12. Lemon, salt/sugar
13. Sand
14. Starch or egg albumin
15. Spirit lamp
16. Wire gauze
17. Stirrer (glass rod)
18. Ammonium Chloride
19. Cotton
20. Water
21. Ethanol or rectified spirit
22. Ether
23. Thermometer
24. Petridish
25. Stopwatch
26. Pipette/syringe
27. Spring balance



GENERAL SCIENCE

Subject Code : C3

Class : IX

Time : 3 hours

Full Marks : 100

Pass Marks : 30

Theory : 90

Internal Assessment : 10

Pass marks in written examination : 27

Sl. No.	Chapters	Marks	
		Half Yearly	Annual
1.	Matter in our surroundings	8	5
2.	Is matter around us pure	8	5
3.	Atoms and molecules		6
4.	Structure of the atom		6
5.	The fundamental unit of life	8	5
6.	Tissues	12	6
7.	Diversity in living organisms	12	7
8.	Motion	12	7
9.	Force and Laws of Motion	12	8
10.	Gravitation	10	7
11.	Work and energy		7
12.	Sound		6

Sl. No.	CHAPTERS	Marks	
		Half Yearly	Annual
13.	Why do we fall ill	8	5
14.	Natural resources		5
15.	Improvement in Food resources		5
	Total	90	90

Experimental Activities Practicals/Internal Assessment Marks - 10

Sl. No.	CHAPTERS	Marks	
		Half Yearly	Annual
1.	Category A : Teacher's activity- (Teacher will evaluate the students as he/she demonstrates)		2
2.	Category B : Student's activity- Activity		3
	Practical record book		3
3.	Category C : Chart/Model/Speciment Collection		2
	Total	10	10
	Grand Total :	100	100

Textbook : Science (for Class IX). The Assam State Textbook Production and Publication Corporation Ltd. Guwahati-1