

West Bengal Board Class 9 Physical Science and Environment Syllabus

Physical Science and Environment

Class- IX

First Summative Evaluation : 40

Month of evaluation : April

Internal Formative Evaluation : 10

THEME / SUB-THEME

1. Measurement
2. Force and Motion
3. Atomic Structure

Second Summative Evaluation : 40

Month of evaluation : August

Internal Formative Evaluation : 10

THEME / SUB-THEME

1. Mole Concept
2. Matter : Structure and Properties
3. Solution
4. Acids, Bases and Salts
5. Work, Power and Energy

Third Summative Evaluation : 90

Month of evaluation : December

Internal Formative Evaluation : 10

THEME / SUB-THEME

1. Sound
2. Heat
3. Separation of Components of Mixtures
4. Water

N.B. : The Themes /Sub-Themes prescribed for the first and second summative evaluation are also to be included in the third summative evaluation.

Physical Science and Environment (Class IX)

Blueprint for 1st Summative Evaluation Total Marks 40

THEME/SUB-THEME	MCQ(GR.A)	VSA(GR.B)	SA(GR.C)	LA(GR.D)	TOTAL
1. Measurement	1×3	1×2	2×2	3×1	12
2. Force and Motion	1×2	1×3	2×3	3×1	14
3. Atomic Structure	1×3	1×2	2×3	3×1	14
Total	8	7	16	9	40

Blueprint for 2nd Summative Evaluation Total Marks 40

THEME/SUB-THEME	MCQ(GR.A)	VSA(GR.B)	SA(GR.C)	LA(GR.D)	TOTAL
1. Mole Concept	1×2	1×1	2×1	3×1	8
2. Matter : Structure and Properties	1×2	1×3	2×1	3×1	10
3. Solution	1×1	1×1	2×1	3×1	7
4. Acids, Bases, Salts	1×2	1×1	2×1	3×1	8
5. Work, Force, Energy	1×1	1×1	2×1	3×1	7
Total	8	7	10	15	40

- 1. In Group A :** All the Multiple Choice Questions (MCQ) are compulsory. There will be no alternative to any question in this Group.
- 2. In Group B :** VSA will contain-(i) answer in single word or single sentence, (ii) column matching, (iii) fill in the blanks, (iv) true/ false type questions. In the first & second summatives there will be alternatives to a total of 3 questions from the same theme/sub-theme.
- 3. In Group C :** In the first & second summatives there will be alternative to 3 questions from the same theme/sub-theme.
- 4. In Group D :** In the first & second summatives there will be alternative to 3 questions from the same theme/sub-theme. In this Group 3 marks may be broken as (2+1).
- 5. All alternatives should be internal i.e. an alternative to question (2a) should be designed as (2a) [Question] OR [Question], (2b), etc.**
- 6. Each numerical question will have alternative item from the same theme/sub-theme.**

Physical Science and Environment (Class IX)

Blueprint for 3rd Summative Evaluation

Total marks 90

SECTION	THEME/SUB-THEME	MCQ(GR. A)	VSA(GR.B)	SA(GR.C)	LA(GR.D)	TOTAL
Physics	1. Matter : Structure and Properties	1×1	1×1	2×2	3×1	9
	2. Measurement	1×1	1×2	2×1	--	5
	3. Force and Motion	1×1	1×2	2×1	3×1	8
	4. Work, Force, Energy	1×1	1×2	2×2	--	7
	5. Sound	1×1	1×2	2×1	3×1	8
	6. Heat	1×1	1×2	2×1	3×1	8
Chemistry	7. Atomic Structure	1×1	1×2	2×1	3×1	8
	8. Mole Concept	1×1	1×2	2×1	3×1	8
	9. Solution	1×1	1×2	2×1	3×1	8
	10. Acids, Bases and Salts	1×2	1×2	2×1	3×1	9
	11. Separation of Components of Mixtures	1×1	1×2	2×1	--	5
	12. Water	1×1	1×2	2×2	--	7
	Total	13	23	30	24	90

- In Group A :** All the Multiple Choice Questions (MCQ) are compulsory. There will be no alternative to any question in this Group.
- In Group B :** VSA will contain-(i) answer in single word or single sentence, (ii) column matching, (iii) fill in the blanks, (iv) true/ false type questions. In this group there will be alternatives to a total of 8 questions : alternative to 4 questions from Physics and 4 questions from Chemistry will be given. All alternatives will be from the same theme/sub-theme.
- In Group C :** (a) Eight (8) questions from Physics will have to be answered. There will be alternative to 3 questions from the same theme. (b) Seven (7) questions from Chemistry will have to be answered. There will be alternative to 3 questions from the same sub-theme.
- In Group D :** (a) Four (4) questions from Physics will have to be answered. There will be alternative to 2 questions from the same theme. (b) Four (4) questions from Chemistry will have to be answered. There will be alternative to 2 questions from the same sub-theme. In this Group 3 marks may be broken as (2+1).
- All alternatives should be internal i.e. an alternative to question (2a) should be designed as (2a) [Question] *OR* [Question], (2b), etc.
- Each numerical question will have alternative item from the same theme/sub-theme.