



# COURSE PLANNER

For Students of

**CLASS-9<sup>th</sup>**

**REGULAR PROGRAM**

Medium: **English**

**Course Concept:** The Program prepare students for NCERT + OLYMPIAD & build strong foundation that leads to Excellent performance in Engineering & Medical Examinations along with excellence in school studies.

**Course Commencement: 03.04.2024 | Course Ends: 15.02.2025**

## TEACHING/LEARNING TOOLS

- ♦ Classroom Teaching
- ♦ Daily Practice Problems (DPPs)
- ♦ Study Material (Sheet/Modules)
- ♦ Periodic Tests
- ♦ Doubt Classes
- ♦ SEP Sheets

## DISCLAIMER

- ♦ The Institute reserves the right to increase/decrease the number of lectures allotted to any topic and also make changes in the sequence of the topics in each subject depending upon the course requirements.
- ♦ This Course Planner in all respects is applicable only at Kota (Rajasthan) SCs. At other Resonance Study Centers, Students/Parents may find some 'minor' variations to accommodate City specific features/factors.
- ♦ The information given in this Course Planner is proposed for Academic Session 2024-25. The institute reserves the right to make changes in it in the interest of students.

## TOTAL ACADEMIC HOURS

- ♦ **Course Duration:** 46 Weeks
- ♦ **Total Number of Lectures:** 432
- ♦ **Duration of one lecture:** 45 minutes
- ♦ **Total Duration of Classroom Teaching:** 324 hrs
- ♦ **Total Duration of Testing:** 56 hrs
- ♦ **Total Academic Hours:** 380 hrs

## HOLIDAYS / VACATIONS

- 1. Summer Break:** 20<sup>th</sup> May to 15<sup>th</sup> June 2024
- 2. Independence Day:** 15<sup>th</sup> August, 2024
- 3. Raksha Bandhan:** 19<sup>th</sup> August, 2024
- 4. Anant Chaturdashi:** 17<sup>th</sup> September, 2024
- 5. Dussehra:** 12<sup>th</sup> October, 2024
- 6. Deepawali Holidays:** 28<sup>th</sup> Oct. to 05<sup>th</sup> November, 2024
- 7. Winter Break:** 30<sup>th</sup> Dec. 2024 to 04<sup>th</sup> January, 2025
- 8. Makar Sankranti:** 14<sup>th</sup> January 2025
- 9. Republic Day:** 26<sup>th</sup> January, 2025: (Applicable only at Kota SC and at other SC's Deepawali vacation will be informed to students as per respective SC holiday calendar)

**PTSM Schedule:** 04<sup>th</sup> May, 2024 | 03<sup>rd</sup> August, 2024 | 28<sup>th</sup> September, 2024 | 21<sup>st</sup> December, 2024 | 08<sup>th</sup> March, 2025

CALL US FOR MORE DETAIL :  
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# SUBJECT WISE SYLLABUS PLAN

## MATHEMATICS

S.No.	Topic Name	No. of Classes
1.	Number System	11
2.	Coordinate geometry	2
3.	Linear equation in two variable	3
4.	Introduction to euclid geometry	3
5.	Lines and angles	8
6.	Congruent triangle	9
7.	Heron's formula	4
8.	Statistics	9
9.	Polynomial	11
10.	Quadrilaterals	8
11.	Area of parallelograms and triangles	6
12.	Circles	8
13.	Constructions	5
14.	Surface area and volume	9
15.	Probability	2
16.	Revision	9
	<b>Total</b>	<b>107</b>

## CHEMISTRY

S.No.	Topic Name	No. of Classes
1.	Matter in our surrounding	12
2.	Is matter Around us Pure	15
3.	Structure of Atom	9
4.	Atoms & Molecules	14
5.	Revision	4
	<b>Total</b>	<b>54</b>

## PHYSICS

S.No.	Topic Name	No. of Classes
1.	Motion	11
2.	Circular Motion	3
3.	Force & Laws of Motion	7
4.	Gravitation	9
5.	Fluid	8
6.	Work, Energy, Power	9
7.	Wave, Motion & Sound	9
	<b>Total</b>	<b>56</b>

## BIOLOGY

S.No.	Topic Name	No. of Classes
1.	Cell	11
2.	Tissue	10
3.	Improvement of food resources	6
4.	Biodiversity	17
5.	Why do we fall ill	3
6.	Natural resources	6
	<b>Total</b>	<b>53</b>

## ENGLISH

S.No.	Topic Name	No. of Classes
1.	Tense	2
2.	Conditionals	1
3.	Subject Verb Agreement	2
4.	Determiners	1
5.	The Fun they had	1
6.	The Road Not Taken	1
7.	The Lost child	1
8.	The sound of music	2
9.	The Adventures of TOTO	1
10.	Reported speech	2
11.	Writing section	1
12.	Wind, Iswaran the story teller	1
13.	Rain on the roof	1
14.	The little girl	1
15.	Modals	3
16.	A truly beautiful mind	1
17.	In the kingdom of fools	2
18.	The lake Isle of Innisfree	1
19.	The snake and the mirror, A legend of the northland	1
20.	The happy prince	2
21.	My childhood, No men are foreign	2
22.	Active and Passive voice	2
23.	Packing	1
24.	Prepositions	3
25.	Weathering the storm in Ersama	2
26.	The last leaf	1
27.	The duck and the kangaroo	1
28.	Reach for the top	1
29.	Connectors	2
30.	A house is not a home	2
31.	On killing a tree	1
32.	The bond of love, Writing Section	2
33.	The snake trying, Kathmandu A slumber did my spirit seal	3
34.	The accidental tourist	2
35.	If I were You	2
36.	The beggar	2
	<b>Total</b>	<b>57</b>

SOCIAL SCIENCE		
S.No.	Topic Name	No. of Classes
1.	India – Size and Location	2
2.	The Story of Village Palampur	2
3.	The French Revolution	3
4.	Physical Features of India	3
5.	Constitutional Design	5
6.	What is Democracy ? Why Democracy?	3
7.	People as Resource	2
8.	Socialism in Europe and The Russian Revolution	4
9.	Drainage	3
10.	Nazism and The rise of Hitler	4
11.	Poverty as a Challenge	2
12.	Electoral Politics	3
13.	Climate	3
14.	Natural Vegetation and Wildlife	2
15.	Working of Institutions	3
16.	Food Security in India	2
17.	Democratic Rights	3
18.	Population	4
19.	Forest Society and Colonialism	2
20.	Pastoralists in the Modern World	2
21.	Revision	11
<b>Total</b>		<b>68</b>

MENTAL ABILITY		
S.No.	Topic Name	No. of Classes
1.	Logical alphabet number	2
2.	Coding-decoding	2
3.	Number series	2
4.	"Series of letters"	2
5.	Missing term in figure	2
6.	"Mathematical operation"	1
7.	Direction sense	1
8.	Seating arrangement	2
9.	Blood relation	1
10.	Puzzle test	2
11.	Venn diagram	1
12.	Syllogism	2
13.	"Day, date and time sequence"	2
14.	Dice test	2
15.	Cube test	2
16.	"Mirror and water image,Paper cutting and folding"	1
17.	Figure partition & counting	1
18.	Nonverbal series	1
19.	Nonverbal analogy	1
20.	Nonverbal classification	1
21.	Revision	6
<b>Total</b>		<b>37</b>

## School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Test Syllabus					
	Physics	Chemistry	Mathematics	Biology	English	Social Science
1			Number System		Tense,Conditionals,Determiners Subject Verb Agreement	India – Size and Location + The Story of Village Palampur
2	Motion	Matter in our Surroundings	Coordinate geometry	Cell	The Fun they had,The Road Not Taken, The Lost child,The sound of music	Democracy in the Contemporary World + The French Revolution + Socialism in Europe & The Russian Revolution
3	Circular Motion		Linear equation in two variable	Tissue	The Adventures of TOTO,Reported speech Writing section, Wind	Physical Features of India+ What is Democracy ? Why Democracy ?
4	Newton's Laws of Motion		Introduction to euclid geometry		Iswaran the story teller,Rain on the roof The little girl	People as Resource+Drainage
5		Is Matter around us Pure	Lines and angles	Improvement in food Resources	Modals, Pronoun, Adjective A truly beautiful mind	Constitutional Design + Nazism and The rise of Hitler
6	Gravitation		Congruent triangle		In the kingdom of fools The lake Isle of Innisfree	
7	Fluid		Heron's formula		The snake and the mirror; A legend of the northland, The happy prince	Poverty as a Challenge
8			Statistics		Novel (Term-1) My childhood, No men are foreign	Electoral Politics
9			Polynomial		Active and Passive voice Packing	Climate + Natural Vegetation & Wildlife
10	Work Energy Power	Structure of Atom	Quadrilaterals	Bio Diversity	Prepositions Weathering the storm in Ersama	Working of Institutions + Food Security in India
11			Area of parallelograms and triangles	Why do we fall ill ?	The last leaf,The duck and the kangaroo Reach for the top	Democratic Rights + Population
12			Circles		Connectors The last leaf The duck and the kangaroo	Forest Society and Colonialism
13			Constructions		A house is not a home On killing a tree,The bond of love, Clauses	
14	Wave, Motion & Sound	Atoms and Molecules	Surface area and volume	Natural Resources	The snake trying, Kathmandu A slumber did my spirit seal	Pastoralists in the Modern World
15			Probability		The accidental tourist,If I were You The beggar, Novel (Term-2)	

# Academic Planning & Test Grid

## Olympiad Pattern Cumulative Test (OCT), School Exam Preparatory Pattern Test (SEP), Major Test (MT) Syllabus

Periodic Test Type & No.	P.T. Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
OCT1 (2 Hr) (Sc. & SST) (3 Hr/1.5Hr) (E/MAT)	27.04.24	Objective	Motion (Upto Uniform and Non uniform motion)	Matter in our Surrounding (upto classification of matter)	Number System (Till Geometric representation of real numbers.	Cell (upto Cell wall & cell membrane)	India – Size and Location, The Story of Village Palampur	Reading Comprehension, tense, Subject Verb agreement , Story writing, the fun they had	Logical alphabet number, coding- decoding,letter-number coding, letter-number coding)
SEP1 (3 Hr/1.5Hr) (Sc. & Eng)	11.05.24	Subjective /Objective (Offline)	Motion (upto Motion under gravity)	Matter in our Surrounding (upto interconversion of states of matter)	NA	Cell (upto mitochondria)	NA	Reading Comprehension, tense, Subject Verb agreement , Story writing, the fun they had	NA
SEP2 (3 Hr/1.5Hr) (Maths & SST)	06.07.24	Subjective /Objective (Offline)	NA	NA	Number System, Coordinate geometry, Linear Equation in two variables, Introduction to Euclids geometry	NA	The Story of Village Palampur, The French Revolution, Physical Features of India, Constitutional Design	NA	NA
OCT2 (2 Hr) (Sc. & SST) (E/MAT)	27.07.24	Objective	Motion, Circular Motion, Force and Laws of Motion	Matter in our surrounding Is matter around us pure (upto types of solution)	Number System, Coordinate geometry, Linear Equation in two variables, Introduction to Euclids geometry, Lines and Angles	Cell, Tissue (upto epithelial tissue)	What is Democracy?, People as a Resource, Constitutional Design	Reading Comprehension, Determiners, The road not taken, The best Child	Logical alphabet number, coding- decoding, number series, Series of letters
SEP3 (3 Hr/1.5Hr) (Sc. & Eng)	10.08.24	Subjective /Objective (Offline)	Motion, Circular Motion, Force and Laws of Motion, Gravitation (upto Galileo observation on falling object)	Matter in our Surrounding, Is matter Around us Pure (upto Separation techniques)	NA	Cell and Tissue	NA	Reading Comprehension, (Story writing), tense, Reported Speech, The Road not taken, The best Child, Music: The Adventures of TOTO	NA
SEP4 (3 Hr/1.5Hr) (Maths & SST)	24.08.24	Subjective /Objective (Offline)	NA	NA	Lines and Angles, Congruent Triangles, Herons formula	NA	Physical Features of India, What is Democracy? Why Democracy?, People as a resource, Constitutional Design	NA	NA

## Half Yearly / Term-1 Dates: 7<sup>th</sup> to 20<sup>th</sup> Sep 2024

Periodic Test Type & No.	P.T. Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
OCT3 (2 Hr) (Sc. & SST) (E/MAT)	05.10.24	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation, Fluid (upto Relative density or specific gravity)	Is matter Around us Pure Atoms and molecules (upto ionic compound)	Number System, Coordinate Geometry, Linear Equation in two variables, Introduction to Euclid geometry, Lines and Angles, Congruent triangles, Herons formula, Statistics	Improvement in food Resources, Biodiversity (upto classification of organisms).	What is Democracy ? Why Democracy?, People as Resource, Drainage, Constitutional Design, Nazism and The rise of Hitler, Poverty as a Challenge	Reading Comprehension, tense, Reported Speech, In the kingdom of fools	Logical alphabet number, coding- decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction sense, Seating arrangement, Blood relation, Puzzle test
SEP5 (3 Hr/1.5Hr) (Sc. & Eng)	19.10.24	Subjective /Objective (Offline)	Gravitation, Fluid, Work, Energy & Power (Upto Work done)	Is matter around us pure (from physical and chemical change) Atoms and molecules (upto Atomic mass Molecular mass, Formula mass and Fractional Atomic mass)	NA	Improvement in food Resources, Biodiversity (upto level of organisation)	NA	Reading Comprehension, Determiners, Reported Speech, Modals, Story writing, Paragraph writing, Iswaran the story teller, A legend of Northland, The happy journey	NA
SEP6 (3 Hr) (Maths & SST)	23.11.24	Subjective /Objective (Offline)	NA	NA	Herons Formula, Statistics, Polynomials, Quadrilaterals	NA	Drainage, Constitutional Design, Nazism and The rise of Hitler, Poverty as a Challenge, Electoral Politics, Climate	NA	NA
OCT4 (2 Hr) (Sc. & SST) (E/MAT)	14.12.24	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation, Fluid, Work, Energy and Power, Wave Motion and Sound (upto Factors affecting the speed of sound)	Matter in our surrounding, Is matter Around us Pure, Atom and molecule	Number System, Coordinate Geometry, Linear Equation in two variables, Introduction to Euclid geometry, Lines and Angles, Congruent triangles, Herons formula, Statistics, Polynomials, Quadrilaterals, Area of parallelogram and triangles, Circles, Constructions	Improvement in food Resources, Biodiversity	People as Resource, Drainage, Constitutional Design, Nazism and The rise of Hitler, Poverty as a Challenge, Electoral Politics, Climate, Natural vegetation and wildlife	Reading Comprehension, SVA, Reported Speech, Reach for the top, On Killing a Tree	Logical alphabet number, coding- decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction sense, Seating arrangement, Blood relation, Day and time sequence, Dice test, Cube test, Mirror and water image, Paper cutting and tiding, Figure partition & counting
SEP7 (3 Hr/1.5Hr) (Sc. & Eng)	11.01.25	Subjective /Objective (Offline)	Fluid, Work, Energy and Power, Wave Motion & Sound	Atoms and molecules Structure of atom (till Bohr's atomic model)	NA	Improvement in food resource, biodiversity, why do we fall ill	NA	Reading Comprehension: The Sad Last Week for the Sun, The Sea, The Wind, The Rain, Writing section Paragraph writing, Day and night, The story of a tree, Kahmraide, tense, SVA, Modals	NA
SEP8 (3 Hr/1.5Hr) (Maths & SST)	01.02.25	Subjective /Objective (Offline)	NA	NA	Number System, Coordinate Geometry, Linear Equation in two variables, Introduction to Euclid geometry, Lines and Angles, Congruent triangles, Herons formula, Statistics, Polynomials, Quadrilaterals, Area of parallelogram and triangles, Circles, Constructions	NA	Nazism and The rise of Hitler, Poverty as a Challenge, Electoral Politics, Climate, Natural Vegetation and Wildlife, Working of Institutions, Food Security, Population	NA	NA

## Annual Exam / Term-2 Dates: From 20<sup>th</sup> Feb to 7<sup>th</sup> March-2025

Periodic Test Type & No.	P.T. Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
MT-1	Term-1	Subjective							
MT-2	Term-2	Subjective							

## Date of Reshuffling of Batches: 24.06.2024 | 30.09.2024