

# COURSE PLANNER

For Students of

**CLASS-8<sup>th</sup>**

**REGULAR PROGRAM**



Medium: **English**

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

**Course Commencement: 05.04.2023 | Course Ends: 17.02.2024**

## 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 2023-24. 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: 50 minutes
- ♦ Total Duration of Classroom Teaching: 360 hrs
- ♦ Total Duration of Testing: 60 hrs
- ♦ Total Academic Hours: 420 hrs

## HOLIDAYS / VACATIONS

**1. Resonance Foundation Day:** 11<sup>th</sup> April 2023 | **2. Summer Break:** 22<sup>nd</sup> May to 18<sup>th</sup> June 2023 | **3. Independence Day:** 15<sup>th</sup> August, 2023 | **4. Raksha Bandhan:** 30<sup>th</sup> August, 2023 | **5. Anant Chaturdashi:** 28<sup>th</sup> September, 2023 | **6. Dussehra:** 24<sup>th</sup> October, 2023 | **7. Deepawali Holidays:** 09<sup>th</sup> to 19<sup>th</sup> November, 2023 | **8. Winter Break:** 25<sup>th</sup> Dec. 2023 to 31<sup>st</sup> December, 2023 | **9. Makar Sankranti:** 14<sup>th</sup> January 2024 | **10. Republic Day:** 26<sup>th</sup> January, 2024: (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:** 06<sup>th</sup> May, 2023 | 19<sup>th</sup> August, 2023 | 30<sup>th</sup> September, 2023 | 16<sup>th</sup> December, 2023 | 10<sup>th</sup> February, 2024 | 12<sup>th</sup> March, 2024

CALL US FOR MORE DETAIL :  
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# SUBJECT WISE SYLLABUS PLAN

ENGLISH		
S.No.	Topic Name	No. of Classes
1.	Noun	2
2.	Reading Comprehension	1
3.	Pronoun	2
4.	Tense	3
5.	" Notice Writing, Essay Writing"	1
6.	Conditionals	1
7.	Adjective	2
8.	Irregular Verbs	1
9.	Adverb	2
10.	One Word Substitution	1
11.	Active and Passive Voice	3
12.	Direct and Indirect Speech	4
13.	Subject Verb Agreement	2
14.	Modals	2
15.	Phrasal Verbs	1
16.	Synonyms and Antonyms	2
17.	Letter Writing	1
18.	Story Writing, Diary Writing	1
19.	Article Writing	1
20.	Idioms	1
21.	Determiners	2
22.	Preposition	3
23.	Conjunction	3
24.	Homophones, Homonyms	2
25.	Speech Writing, Report Writing	2
26.	Revision	6
	<b>Total</b>	<b>57</b>

SOCIAL SCIENCE		
S.No.	Topic Name	No. of Classes
1.	How, When and Where	2
2.	"Resources, Types and Development "	2
3.	The Indian Constitution	2
4.	" Understanding Secularism"	2
5.	From Trade to Territory	3
6.	Ruling the Country Side	4
7.	Tribal, Dikus and the Vision of a Golden Age	2
8.	Land, Soil, Water and Natural Vegetation and Wildlife Resources	3
9.	Mineral and Power Resource	2
10.	When People Rebel	3
11.	Why do We Need a Parliament	3
12.	Agriculture	3
13.	Colonialism & the Story of an Imperial City	2
14.	Manufacturing Industries	2
15.	"Weavers, Iron Smelters and Factory Owners "	2
16.	Understanding Laws	2
17.	Civilizing the Native Educating the Nation	3
18.	Judiciary	2
19.	Women, Caste and Social Reforms	3
20.	Understanding Our Criminal Justice System	2
21.	Human Resources	3
22.	Understanding and Tackling Marginalisation	2
23.	The Changing World of Visual Arts	3
24.	"The Indian National Movement-I"	4
25.	Water and the People of Chennai	3
26.	The Indian National Movement-II	3
27.	Law and Social Justice	3
	<b>Total</b>	<b>70</b>

PHYSICS		
S.No.	Topic Name	No. of Classes
1.	Force	7
2.	Pressure	5
3.	Friction	4
4.	Sound	9
5.	Electricity	11
6.	Light	12
7.	Earthquakes	2
8.	" Rain, Thunder and Lightning"	2
9.	The Night Sky	4
	<b>Total</b>	<b>56</b>

BIOLOGY		
S.No.	Topic Name	No. of Classes
1.	Crop Production and Management	9
2.	Micro Organisms Friend & Foe	9
3.	Conservation of Plants and Animals	9
4.	Cellular Level of Organisation	10
5.	Reproduction in Animals	7
6.	Pollution of Air and Water	4
7.	Reaching the Age of Adolescence	6
	<b>Total</b>	<b>54</b>

MATHEMATICS		
S.No.	Topic Name	No. of Classes
1.	Rational Numbers	9
2.	"Squares & Square Roots"	9
3.	Cubes and Cube Roots	7
4.	Linear Equation in One Variable	5
5.	Quadrilaterals	8
6.	Construction of Quadrilaterals	3
7.	Playing with Numbers	5
8.	Algebraic Expressions, Algebraic Identities	12
9.	Exponents and Power	5
10.	Percentage and its Application	8
11.	Compound Interest	5
12.	Direct and Inverse Variation	8
13.	Visualising Solid Shapes	5
14.	Mensuration	6
15.	Introduction to Graph	3
16.	Data Handling	4
17.	Probability	4
	<b>Total</b>	<b>106</b>

MENTAL ABILITY		
S.No.	Topic Name	No. of Classes
1.	Test of Alphabets	2
2.	Logical Numbers	2
3.	Repeat the Letters	1
4.	Magic of Figures	1
5.	Operations	2
6.	Secret of the Words	2
7.	Journey Ends	1
8.	Sequencing	2
9.	Blood Sample	2
10.	Sit Over Here	2
11.	Unlock the Mystery	2
12.	Pictures	1
13.	Throw it	1
14.	Date and Time	2
15.	Compare & Out	1
16.	Figure Situation	2
17.	Mixture	1
	Revision	9
	<b>Total</b>	<b>36</b>

CHEMISTRY		
S.No.	Topic Name	No. of Classes
1.	Synthetic Fibre and Plastics	12
2.	Metals and Non - Metals	15
3.	Coal and Petroleum	8
4.	Combustion and Flame	14
5.	Revision	4
	<b>Total</b>	<b>53</b>

## School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Test Syllabus					
	Physics	Chemistry	Mathematics	Biology	English	Social Science
1			Rational Numbers		Noun, Reading Comprehension	How, When and Where
2	Force		squares and square roots	Crop production & Management	Pronoun, Tense	Resources, Types and Development + From Trade to Territory
3	Pressure		Cube and cube roots		" Notice Writing, Essay Writing"	The Indian Constitution & Understanding Secularism + Ruling the Country Side & Tribal, Bikus and the vision of a Golden age
4	Friction	Synthetic Fibre and Plastics	Linear equation in one variable	Micro organism friends & foe	Conditionals, Adjective	Land, Soil, Water and Natural veg. and Wildlife Resources
5			quadrilateral		Irregular Verbs, Adverb	Mineral and Power Resource
6	Sound		Construction		One Word Substitution	When people rebel + Agriculture
7		Metals and Non - Metals	playing with numbers	Conservation of Plants & Animals	Active and Passive Voice	Why do we need a parliament + Colonialism & the story of an imperial city
8			Algebraic expression		Direct and Indirect Speech	
9			Algebraic Identities		Subject Verb Agreement	Manufacturing Industries
10	Electricity		Exponents and power		Modals, Phrasal Verbs	Weavers, Iron smelters and factory owners + Civilising the Native, Educating the nation
11		Coal and Petroleum	Percentage and its application	Cellular level of Organization	Synonyms and Antonyms	Understanding Laws + Judiciary + Understanding our Criminal justice system
12			Compound Interest		Letter Writing	Women, Caste and Social Reforms + Human Resources + The Changing world of Visual Arts
13	Light		Direct and inverse variation	Reproduction In animals	Story Writing, Diary Writing	Understanding Marginalisation + Confronting Marginalisation
14			Visualising Solid Shape		Article Writing	
15	Earthquakes		Mensuration	Pollution of air and water	Idioms, Determiners	
16	Rain, Thunder and lightning		Introduction to graph		Preposition, Conjunction	
17			Data Handling		Homophones, Homonyms	The Indian National Movement-I + The Indian National Movement-II
18	Night Sky	Combustion and Flame	Probability	Reaching the age of adolescence	Speech Writing, Report Writing	Water and the people of Chennai + Law and Social Justice

# Academic Planning & Test Grid

Periodic Test (PT) Type & No.		P.T. Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
OCT1 (2 Hr) (Sc./M./SST. E./MAT)		30.04.23	Objective	Force (Upto Balanced and Unbalanced forces, Resultant force)	Synthetic Fibre and Plastics (upto polyester, acrylic)	Rational Numbers (Till division)	Crop production and management (upto sowing).	How, When and Where, Resources, Types and Development, The Indian Constitution	Noun, Reading Comprehension	Test of alphabets, logical numbers
SEP1 (3 Hr/1.5 Hr) (Sc. & Eng)		14.05.23	Subjective (Offline) /Objective (Online)	Force , Pressure (Upto Units of pressure)	Synthetic fibres and plastics (till blended fibres)	NA	Crop production and management (upto storage of grains)	NA	Noun, Reading Comprehension, Pronoun	NA
SEP2 (3 Hr/1.5 Hr) (Maths & SST)		25.06.23	Subjective (Offline) /Objective (Online)	NA	NA	Rational Numbers, Squares & square roots	NA	The Indian Constitution, Understanding Secularism, From Trade to Territory, Ruling the Country Side	NA	NA
OCT2 (2 Hr) (Sc./M./SST. E./MAT)		09.07.23	Objective	Force, Pressure, Friction ( upto Types of Friction)	Synthetic fibres & plastics, Metals and Non-Metals (upto physical properties of metals)	Rational Numbers , Square and square root, Cubes and cube roots	Crop production and management, Micro organisms friend & foe ( upto Importance of bacteria)	From Trade to Territory, Ruling the Country Side, Tribal, Dikus and the vision of a golden age	Reading Comprehension, Adjective, Tense	Test of alphabets, logical numbers, Logical alphabets, Logical numbers, Logical letters, magic of figures, operations
SEP3 (3 Hr/1.5 Hr) (Sc. & Eng)		23.07.23	Subjective (Offline) /Objective (Online)	Force, Pressure, Friction, Sound (Upto Difference between mechanical wave and non mechanical wave)	Synthetic fibres & plastics (From Plastics), Metals and Non-Metals (till chemical properties of metals)	NA	Crop production and management, Micro organisms friend & foe (upto bacterial disease.)	NA	Reading Comprehension, Notice Writing, Essay Writing, Irregular Verbs (All), Adverb, Adjective and Conditionals	NA
SEP4 (3 Hr/1.5 Hr) (Maths & SST)		06.08.23	Subjective (Offline) /Objective (Online)	NA	NA	Cube and Cube Roots, Linear equation in one variable, Quadrilaterals	NA	How, When and Where, Resources, Types and Development, The Indian Constitution, Understanding Secularism, From Trade to Territory, Ruling the Country Side, Tribal, Dikus and the vision of a golden age, Land, Soil, Water and Natural vegetation and Wildlife Resources.	NA	NA
OCT3 (2 Hr) (Sc./M./SST. E./MAT)		27.08.23	Objective	Force, Pressure, Friction, Sound	Synthetic fibres and Plastics, Metals and Non-Metals (till Uses of Metals)	Rational Numbers , Square and square root, Cubes and cube roots, Linear equation in one variable, Quadrilaterals, Construction of quadrilaterals, Playing with numbers	Crop production, micro organisms, conservation of plants and animals (upto red data book)	From Trade to Territory, Ruling the Country Side, Tribal, Dikus and the vision of a golden age, Land, Soil, Water and Natural vegetation and Wildlife Resources, Power Resources, When people rebel, Why do we need a Parliament, Agriculture.	Reading Comprehension, Active- Passive Voice, Direct and Indirect Speech	Test of alphabets, logical numbers, Logical alphabets, Logical numbers, Logical letters, magic of figures, operations, secret of the words, journey ends, sequencing, blood sample, sit over here, unlock the mystery

## Major Test Term-1 Dates: 4th to 16th Sep 2023

Periodic Test (PT) Type & No.		P.T. Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
OCT4 (2 Hr) (Sc./M./SST. E./MAT)		15.10.23	Objective	Force, Pressure, Friction, Sound, Electricity (till Static Electricity, Current/Electricity)	Metals and Non-metals, Coal and Petroleum (till fossil fuels)	Rational numbers, Squares and square root, Cubes and cube roots, Linear equation in one variable, Quadrilaterals	Conservation of plant and animals, Cellular level of organisation (upto types of organisms)	Tribal, Dikus and the vision of a golden age, Mineral and Power Resource, When people rebel, Why do we need a parliament, Agriculture, Manufacturing Industries, Weavers, Iron smelters and factory owners, Understanding Laws	Reading Comprehension, Modals, Phrasal Verbs (All), Synonyms and Antonyms (1 to 50)	Test of alphabets, logical numbers, Logical alphabets, Logical numbers, Logical letters, magic of figures, operations, secret of the words, journey ends, sequencing, blood sample, sit over here, unlock the mystery
SEP5 (3 Hr/1.5 Hr) (Sc. & Eng)		05.11.23	Subjective (Offline) /Objective (Online)	Sound, Electricity (till Safety Measures in Using Electricity)	Metals and Non-metals, Coal and Petroleum (upto petroleum refining)	Algebraic identities, Exponents and its powers, Percentage and its application	Conservation of plants and animals, Cellular level of organisation (upto mitochondria)	Weavers, Iron smelters and factory owners, Understanding Laws, Civilizing the Native, Educating the Nation, Judiciary, Women, caste and social reforms	Reading Comprehension, Direct and Indirect, Speech, Subject and Object, Synonyms and Antonyms(All), Letter/Writing, Story/Writing	NA
SEP6 (3 Hr/1.5 Hr) (Maths & SST)		26.11.23	Subjective (Offline) /Objective (Online)	NA	NA	Algebraic identities, Squares and square root, Cubes and cube roots, Linear equation in one variable, Quadrilaterals, Construction of quadrilaterals, Playing with numbers, Algebraic expressions, Exponents and its powers, Percentage and its application	Conservation of plants and animals, Cellular level of organisation, Reproduction in animals (upto bisexual)	Mineral and Power Resource, When people rebel, Why do we need a parliament, Agriculture, Manufacturing Industries, Weavers, Iron smelters and factory owners, Understanding Laws, Civilizing the Native, Educating the Nation, Judiciary, Women, Caste and social reforms.	Reading Comprehension, Determiners, Preposition	Test of alphabets, logical numbers, Logical alphabets, Logical numbers, Logical letters, magic of figures, operations, secret of the words, journey ends, sequencing, blood sample, sit over here, unlock the mystery, Compare & contrast
OCT5 (2 Hr) (Sc./M./SST. E./MAT)		17.12.23	Objective	Electricity, Light (Upto Use of plane mirror)	Metals and Non-metals, Coal and Petroleum (upto Combustion and flame)	NA	Cellular level of organisation, Reproduction in animals (placement)	NA	Reading Comprehension, Phrasal Verbs, Story Writing, Diary Writing, Determiners, Preposition	NA
SEP7 (3 Hr/1.5 Hr) (Sc. & Eng)		07.01.24	Subjective (Offline) /Objective (Online)	Force, Pressure, Friction, Sound, Electricity, Light (upto Image formation by a concave lens)	Coal and petroleum, Combustion and Flame (till Combustion of a wax candle, Zones of a candle flame)	Percentage and its application, Compound Interest, Direct and inverse variation, visualising solid shapes	NA	Understanding Laws, Civilizing the Native, Educating the Nation, Judiciary, Women, Caste and Social Reforms, Understanding our Criminal, justice system, Human Resources, Understanding and Tackling Marginalisation, The Indian National Movement-I	NA	NA
SEP8 (3 Hr/1.5 Hr) (Maths & SST)		28.01.24	Subjective (Offline) /Objective (Online)	NA	NA	Rational numbers , Squares and square root, Cubes and cube roots ,Linear equation in one variable, Quadrilaterals, Construction of quadrilaterals, Playing with numbers, Algebraic expressions, Algebraic Identities, Exponents and power, Percentage and its application, Compound Interest, Direct and inverse variation, Visualising Solid Shapes, Mensuration	crop production, micro organisms, conservation of plants and animals , Cellular level of organisation, Reproduction in animals, Pollution of air and water, Reaching the age of Adolescence ( upto glands- hypothalamus)	Women Caste and Social Reforms, Understanding our Criminal justice system, Human Resources, Understanding and Tackling Marginalisation, The Indian National Movement-I, Law and social Justice	Reading Comprehension, Phrasal Verbs, Story Writing, Diary Writing, Determiners, Preposition	Test of alphabets, logical numbers, Logical alphabets, Logical numbers, Logical letters, magic of figures, operations, secret of the words, journey ends, sequencing, blood sample, sit over here, unlock the mystery, compare & contrast, figure situation, mixture
OCT6 (2 Hr) (Sc./M./SST. E./MAT)		04.02.24	Objective	Force, Pressure, Friction, Sound, Electricity, Light, Earthquakes, Rain thunder & lightning	Synthetic Fibre and Plastics, Metals and Non - Metals, Coal and petroleum, Combustion and Flame	Force, Pressure, Friction, Sound, Electricity, Light, Earthquakes, Rain thunder & lightning	Force, Pressure, Friction, Sound, Electricity, Light, Earthquakes, Rain thunder & lightning	Force, Pressure, Friction, Sound, Electricity, Light, Earthquakes, Rain thunder & lightning	Force, Pressure, Friction, Sound, Electricity, Light, Earthquakes, Rain thunder & lightning	Force, Pressure, Friction, Sound, Electricity, Light, Earthquakes, Rain thunder & lightning

## Major Test Term-2 Dates: 20th Feb to 07th March-2024

Term-2 Subjective

Date of Reshuffling of Batches: 19.06.2023 | 25.09.2023

Term-2 Subjective