

# COURSE PLANNER

For Students of  
**CLASS-VIII**

**REGULAR PROGRAM** | Academic Session: 2017-2018



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: 04.04.2017 | Course Ends: 18.02.2018**

## 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 2017-18. 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: 55 minutes
- ♦ Total Duration of Classroom Teaching: 396 hrs
- ♦ Total Duration of Testing: 54 hrs
- ♦ Total Academic Hours: 450 hrs

## HOLIDAYS / VACATIONS

1. Resonance Foundation Day: 11<sup>th</sup> April 2017 | 2. Summer Break: 12<sup>th</sup> to 24<sup>th</sup> June 2017 | 3. Raksha Bandhan: 7<sup>th</sup> August, 2017 | 4. Special Holiday: 14<sup>th</sup> August, 2017 | 5. Independence Day: 15<sup>th</sup> August, 2017 | 6. Anant Chaturdashi: 5<sup>th</sup> September, 2017 | 7. Term Break: 11<sup>th</sup> to 29<sup>th</sup> September, 2017 | 8. Dussehra: 30<sup>th</sup> September, 2017 | 9. Deepawali Holidays: 15<sup>th</sup> to 22<sup>nd</sup> October, 2017 | 10. Winter Break: 25<sup>th</sup> to 30<sup>th</sup> December, 2017 | 11. Makar Sankranti: 14<sup>th</sup> January 2018 | 12. Republic Day: 26<sup>th</sup> January, 2018: (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:** 20<sup>th</sup> May, 2017 | 12<sup>th</sup> August, 2017 | 2<sup>nd</sup> December, 2017 | 27<sup>th</sup> January, 2018

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# SUBJECT WISE SYLLABUS PLAN

## MATHEMATICS

S.No.	Topic Name	No. of Classes	Topic Start Date
1.	Rational Numbers	7	04-Apr-17
2.	squares and square roots	9	25-Apr-17
3.	Cube and cube roots	5	18-May-17
4.	Linear equation in one variable	3	01-Jun-17
5.	quadrilateral	5	10-Jun-17
6.	Construction	3	06-Jul-17
7.	playing with numbers	3	15-Jul-17
8.	Algebraic expression	8	22-Jul-17
9.	Algebraic Identities	7	12-Aug-17
10.	Exponents and power	3	03-Oct-17
11.	Percentage and its application	7	10-Oct-17
12.	SI and CI	5	07-Nov-17
13.	Direct and inverse variation	7	21-Nov-17
14.	Visualising Solid Shape	3	12-Dec-17
15.	Mensuration	7	19-Dec-17
16.	Introduction to graph	2	16-Jan-18
17.	Statistics	4	20-Jan-18
18.	Probability	4	01-Feb-18
<b>Total</b>		<b>92</b>	

## WEEKLY LECTURE PLANNER (PER SUBJECT)

Week No.	Week Duration		No. of Lecture								Total No. of Lecture
	From	To	Physic	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability		
W1	3-4-17	8-4-17	2	2	3	1	2	1	1	1	12
W2	10-4-17	15-4-17	1	1	2	1	1	1	1	1	8
W3	17-4-17	22-4-17	2	1	2	2	2	2	2	1	12
W4	24-4-17	29-4-17	1	2	3	2	2	1	1	1	12
W5	1-5-17	6-5-17	2	2	2	1	2	2	2	1	12
W6	8-5-17	13-5-17	2	1	3	2	2	1	1	1	12
W7	15-5-17	20-5-17	1	2	2	2	2	2	2	1	12
W8	22-5-17	27-5-17	2	2	3	1	2	1	1	1	12
W9	29-5-17	3-6-17	2	1	2	2	2	2	2	1	12
W10	5-6-17	10-6-17	1	2	3	2	2	1	1	1	12
W11	12-6-17	17-6-17	Summer Break								
W12	19-6-17	24-6-17	Summer Break								
W13	26-6-17	1-7-17	2	2	3	1	2	1	1	1	12
W14	3-7-17	8-7-17	2	1	2	2	2	2	2	1	12
W15	10-7-17	15-7-17	1	2	3	2	2	1	1	1	12
W16	17-7-17	22-7-17	2	2	3	1	2	1	1	1	12
W17	24-7-17	29-7-17	2	1	2	2	2	2	2	1	12
W18	31-7-17	5-8-17	1	2	3	2	2	1	1	1	12
W19	7-8-17	12-8-17	2	2	3	1	2	1	1	1	12
W20	14-8-17	19-8-17	1	1	2	1	1	1	1	1	8
W21	21-8-17	26-8-17	2	1	2	2	2	2	2	1	12
W22	28-8-17	2-9-17	Term Break								
W23	4-9-17	9-9-17	1	1	2	1	1	1	1	1	8
W24	11-9-17	16-9-17	Term Break								
W25	18-9-17	23-9-17	Term Break								
W26	25-9-17	30-9-17	Term Break								
W27	2-10-17	7-10-17	2	2	3	1	2	1	1	1	12
W28	9-10-17	14-10-17	2	1	2	2	2	2	2	1	12
W29	16-10-17	21-10-17	Winter Vacation								
W30	23-10-17	28-10-17	1	2	2	2	2	2	2	1	12
W31	30-10-17	4-11-17	1	2	3	2	2	1	1	1	12
W32	6-11-17	11-11-17	2	2	2	1	2	2	2	1	12
W33	13-11-17	18-11-17	2	1	3	2	2	1	1	1	12
W34	20-11-17	25-11-17	1	2	2	2	2	2	2	1	12
W35	27-11-17	2-12-17	2	2	3	1	2	1	1	1	12
W36	4-12-17	9-12-17	2	1	2	2	2	2	2	1	12
W37	11-12-17	16-12-17	1	2	3	2	2	2	1	1	12
W38	18-12-17	23-12-17	2	2	2	1	2	2	2	1	12
W39	25-12-17	30-12-17	Winter Vacation								
W40	1-1-18	6-1-18	2	1	3	2	2	1	1	1	12
W41	8-1-18	13-1-18	1	2	2	2	2	2	2	1	12
W42	15-1-18	20-1-18	2	2	3	1	2	1	1	1	12
W43	22-1-18	27-1-18	2	1	2	2	2	2	2	1	12
W44	29-1-18	3-2-18	1	2	3	2	2	1	1	1	12
W45	5-2-18	10-2-18	Winter Vacation								
W46	12-2-18	17-2-18	2	2	2	2	2	2	2	1	12

## SOCIAL SCIENCE

S.No.	Topic Name	No. of Classes	Topic Start Date
1.	How, When and Where	2	04-Apr-17
2.	"Resources, Types and Development "	3	11-Apr-17
3.	The Indian Constitution & Understanding Secularism	3	25-Apr-17
4.	From Trade to Territory	3	04-May-17
5.	Ruling the Country Side & Tribal, Dikus and the vision of a Golden age	4	16-May-17
6.	Land, Soil, Water & Natural veg. & Wildlife Resources	4	30-May-17
7.	Mineral and Power Resource	3	27-Jun-17
8.	When people rebel	3	06-Jul-17
9.	Why do we need a parliament	4	18-Jul-17
10.	Agriculture	4	01-Aug-17
11.	Colonialism & the story of an imperial city	4	17-Aug-17
12.	Industries	2	03-Oct-17
13.	"Weavers, Iron smelters & factory owners"	2	10-Oct-17
14.	Understanding Laws	2	24-Oct-17
15.	"Civilising the Native, Educating the nation"	4	31-Oct-17
16.	Judiciary	2	14-Nov-17
17.	women ,caste and social reforms	2	21-Nov-17
18.	Understanding our Criminal justice system	2	28-Nov-17
19.	Human Resources	2	05-Dec-17
20.	Understanding Marginalisation	2	12-Dec-17
21.	The Changing world of Visual Arts	2	19-Dec-17
22.	Confronting Marginalisation	2	02-Jan-18
23.	"The Indian National Movement-I"	4	09-Jan-18
24.	Water and the people of Chennai	2	23-Jan-18
25.	The Indian National Movement-II	2	30-Jan-18
26.	Law and Social Justice	2	13-Feb-18
<b>Total</b>		<b>71</b>	

## PHYSICS

S.No.	Topic Name	No. of Classes	Topic Start Date
1.	Force	7	04-Apr-17
2.	Pressure	6	04-May-17
3.	Friction	5	30-May-17
4.	Sound	10	04-Jul-17
5.	Electricity	11	17-Aug-17
6.	Light	12	09-Nov-17
7.	Earthquakes	2	04-Jan-18
8.	"Rain, Thunder and lightning"	2	16-Jan-18
9.	Night Sky	5	23-Jan-18
<b>Total</b>		<b>60</b>	

## CHEMISTRY

S.No.	Topic Name	No. of Classes	Topic Start Date
1.	"Synthetic Fibre and Plastics"	18	04-Apr-17
2.	"Metals and Non - Metals"	12	04-Jul-17
3.	Coal and Petroleum	15	07-Sep-17
4.	Combustion and Flame	15	05-Dec-17
<b>Total</b>		<b>60</b>	

ENGLISH			
S.No.	Topic Name	No. of Classes	Topic Start Date
1.	Noun	3	04-Apr-17
2.	Pronoun	2	20-Apr-17
3.	Irregular verbs + message + notice	2	02-May-17
4.	Spoken English activity	1	09-May-17
5.	One word substitution + diary entry	2	16-May-17
6.	Adjective	1	23-May-17
7.	Adverbs	2	30-May-17
8.	Letter writing/ article/report/speech/Story	1	06-Jun-17
9.	Tense	3	27-Jun-17
10.	Irregular verbs, story writing	1	11-Jul-17
11.	Idioms and phrases	1	18-Jul-17
12.	Conditionals	2	25-Jul-17
13.	Spoken English Activity	1	01-Aug-17
14.	Reading Comprehension + Homophones & homonyms	1	08-Aug-17
15.	synonyms + antonyms	1	17-Aug-17
16.	Omission + editing	3	22-Aug-17
17.	SVA	3	03-Oct-17
18.	Modals	2	24-Oct-17
19.	Spoken English activity	1	31-Oct-17
20.	Reported speech	3	07-Nov-17
21.	Active- passive voice	3	21-Nov-17
22.	Conjunctions	3	05-Dec-17
23.	Determiners	2	19-Dec-17
24.	Analogies	1	02-Jan-18
25.	Error Spotting	3	09-Jan-18
26.	Preposition	3	16-Jan-18
	<b>Total</b>	<b>51</b>	

MENTAL ABILITY			
S.No.	Topic Name	No. of Classes	Topic Start Date
1.	Test of Alphabets	3	04-Apr-17
2.	Logical numbers	2	25-Apr-17
3.	Logical Alphabates	2	09-May-17
4.	Repeat the letters	2	23-May-17
5.	Magic of figures	2	06-Jun-17
6.	Operations	3	04-Jul-17
7.	Secret of the words	2	25-Jul-17
8.	Journey ends	1	08-Aug-17
9.	Sequencing	3	17-Aug-17
10.	Blood- Sample	2	03-Oct-17
11.	Sit over here	2	24-Oct-17
12.	Unlock the mystery	3	07-Nov-17
13.	Pictures	1	28-Nov-17
14.	Throw it	2	05-Dec-17
15.	Compare & out	2	19-Dec-17
16.	Figure situation	2	09-Jan-18
17.	Mixture	2	23-Jan-18
	<b>Total</b>	<b>36</b>	

BIOLOGY			
S.No.	Topic Name	No. of Classes	Topic Start Date
1.	Crop production and management	9	04-Apr-17
2.	Micro organism friends and foe	8	16-May-17
3.	Conservation of Plants and Animals	14	04-Jul-17
4.	Cellular level of Organization	9	03-Oct-17
5.	Reproduction In animals	9	16-Nov-17
6.	Pollution of air and water	4	02-Jan-18
7.	Reaching the age of adolescence	7	16-Jan-18
	<b>Total</b>	<b>60</b>	

## School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Solve Date	Check Date	Test Syllabus					
			Physics	Chemistry	Mathematics	Biology	English	Social Science
1	3/4 to 22/4	24/4 to 29/4			Rational Numbers		Noun	How, When and Where
2	24/4 to 18/5	22/5 to 27/5	Force		squares and square roots	Crop production & Management	Pronoun + One word substitution + diary entry	Resources, Types and Development + From Trade to Territory
3	18/5 to 1/6	12/6 to 17/6	Pressure		Cube and cube roots		Irregular verbs + message + notice + Adjective + Letter writing/article/report/speech + Story	The Indian Constitution & Understanding Secularism + Ruling the Country Side & Tribal, Dikus and the vision of a Golden age
4	1/6 to 10/6	3/7 to 8/7	Friction	Synthetic Fibre and Plastics	Linear equation in one variable	Micro organism friends & foe	Adverbs	Land, Soil, Water and Natural veg. and Wildlife Resources
5	26/6 to 8/7	24/7 to 29/7			quadrilateral		Tense + Idioms and phrases	Mineral and Power Resource
6	10/7 to 15/7	14/8 to 19/8	Sound		Construction		Irregular Verbs, Story writing + Conditionals	When people rebel + Agriculture
7	17/7 to 22/7	4/9 to 9/9		Metals and Non - Metals	playing with numbers	Conservation of Plants & Animals	Reading comprehension + homophones and homonyms + Omission + editing	Why do we need a parliament + Colonialism & the story of an imperial city
8	24/7 to 12/8	2/10 to 7/10			Algebraic expression		synonyms + antonyms	
9	14/8 to 9/9	23/10 to 28/10			Algebraic Identities		SVA	Industries
10	2/10 to 7/10	13/11 to 18/11	Electricity		Exponents and power		Modals	Weavers, Iron smelters and factory owners + Civilising the Native, Educating the nation
11	9/10 to 4/11	4/12 to 9/12		Coal and Petroleum	Percentage and its application	Cellular level of Organization	Reported speech	Understanding Laws + Judiciary + Understanding our Criminal justice system
12	6/11 to 18/11	25/12 to 30/12			SI and CI		Active-passive Voice + Determiners	Women, Caste and Social Reforms + Human Resources + The Changing world of Visual Arts
13	20/11 to 6/12	15/1 to 20/1	Light		Direct and inverse variation	Reproduction In animals	analogies + Conjunctions	Understanding Marginalisation + Confronting Marginalisation
14	8/12 to 16/12	25/12 to 30/12			Visualising Solid Shape			
15	18/12 to 13/1	15/1 to 20/1	Earthquakes		Mensuration	Pollution of air and water	Error sporting	
16	15/1 to 20/1	5/2 to 10/2	Rain, Thunder and lightning		Introduction to graph			
17	22/1 to 3/2	5/2 to 10/2			Statistics		Preposition	The Indian National Movement-I + The Indian National Movement-II
18	29/1 to 3/2	5/2 to 10/2	Night Sky	Combustion and Flame	Probability	Reaching the age of adolescence		Water and the people of Chennai + Law and Social Justice

# Academic Planning & Test Grid

Periodic Test Type & No.	P.T. Date	Test Type	Olympiad Pattern Part Test (OPT), Olympiad Pattern Cumulative Test (OCT), School Exam Preparatory Pattern Test (SEP), Open Test (OT) Syllabus and Result Communication					Testing Hours	Penalitive Result	Final Result		
			Physics	Chemistry	Mathematics	Biology	Social Science				English	Mental Ability
OPT-1	30.04.17	Objective	Force (up to Types of force, Contact force)	Synthetic Fibre and Plastics (till Nylon)	Rational No.	Crop production and management (till-Crop patterns)	How, When and where, Resources, types and Development	Noun + Reading Comprehension	Test of Alphabets	2	27.04.17	01.05.17
OCT-1	21.05.17	Objective	Force, Pressure (up to Pressures exerted by fluids, Role of atmospheric pressure in our day to day life, Manometer)	Synthetic Fibre and Plastics (till Activity-(2) to determine the effect of flame on different Fibres)	Rational No. and squares and square roots	Crop production and management	The Indian Constitution .From Trade to territory	Comprehension+ Irregular verbs + Pronoun	Test of Alphabets, Logical numbers, Logical Alphabet (ALPHABET SERIES)	2	18.05.17	22.05.17
SEP-1	11.06.17	Subjective (Sc. & Eng)	Force, Pressure, Friction (up to Types of friction, Advantages and disadvantages of Friction; Friction is an necessary evil)	Synthetic Fibre and Plastics till General characteristics of Synthetic Plastics	NA	Crop production and management + Micro-organism (till-Harmful/micro-organism)	NA	Message+ Notice+ Adverbs + one word substitution	NA	3	17.06.17	20.06.17
SEP-1	16.07.17	Subjective (Maths & SST)	NA	NA	Cube and cube roots and Linear equation in one variable, quadrilateral, Construction	NA	Ruling the Country Side, Land, Soil, Water and Natural veg. and Wildlife Resources, Mineral and Power Resource	NA	NA	3	22.07.17	25.07.17
OPT-2	06.08.17	Objective	From Friction (From Way to reduction of friction), Sound (upto Reflection of Sound, Echo)	Introduction, Occurrence of metals and non - metals, Physical properties of non - metals Chemical properties of metals. ; Activity-(1) test the nature of rust, Chemical properties of metals,	Quadrilateral, Playing with Numbers, algebraic exp. (up to degree of an algebraic exp)	Conservation of Plants and Animals	When people rebel, Why do we need a parliament	Tense + Irregular verbs + Idioms	Repeat the letters, Magic of figures, Operations	2	03.08.17	07.08.17
OCT-2	27.08.17	Objective	Friction, Sound	metal non metal till chemical properties of non metal	Playing with Numbers, Algebraic expression, Algebraic identities (except factorization)	Micro organism friends and foe, Conservation of Plants and Animals	Agriculture ,Colonialism & the story of an imperial city	Conditionals + idioms and phrases+ Reading Comprehension+ homophones and homonyms	Secret of the words, Journey ends , Sequencing (Number Quibble, Alphabetical Quibble)	2	24.08.17	28.08.17

## Major Test Dates: 19<sup>th</sup> August to 7<sup>th</sup> September 2017

MT	Subjective	12	21.09.17	25.09.17
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OPT-3	08.10.17	Objective	Electricity (upto Flow of charges, Earthing)	Uses of noble metals, Chemical properties of non - metals, Activity (3) to show the nature of non-metallic oxides, Uses of non -metals.	algebraic identities and Exponents and power (till laws of exponents)	Conservation of Plants and Animals, Cellular level of Organization (till-cell shape)	Industries	Reading Comprehension + Synonyms, antonyms	journey ends, sequencing	2	12.10.17	16.10.17
OCT-3	05.11.17	Objective	Electricity	coal and petroleum till Destructive distillation and uses.	Exponents and power, Percentage and its application (upto Various Terms -CP, SP, MP Profit, Loss, Discount and VAT)	Cellular level of Organization (till-Lysosomes)	Weavers, Iron smelters and Factory owners ,Understanding Laws	SVA + Modals+ comprehension	Sequencing, Blood-Sample, Sit over here (simple ques)	2	09.11.17	13.11.17
SEP-2	26.11.17	Subjective (Sc. & Eng)	Electricity, Light (upto Reflection, Types of Reflection, Images)	coal and petroleum till fractional distillation	NA	Cellular level of Organization	NA	Reported speech + Reading Comprehension + letter writing	NA	3	09.12.17	12.12.17
SEP-2	17.12.17	Subjective (Maths & SST)	NA	NA	Percentage and its application, SI and CI, Direct and inverse variation	NA	Civilising the Native, Educating the nation, Judiciary, Human Resources Understanding our Criminal justice system	NA	NA	3	30.12.17	02.01.18
OPT-4	21.01.18	Objective	Light, Earthquakes,	Combustion and Flame till zones of candle flame	Mensuration, Introduction to graph	Reproduction In animals+ Pollution of air and water	Human Resources ,Understanding Marginalisation ,The Changing world of Visual Arts, Confronting Marginalisation	Determiners + error spotting	Unlock the mystery, Pictures, Throw it, Compare & out, Figure situation (Missing Figures,)	2	25.01.18	29.01.18

## Major Test Dates: 4<sup>th</sup> February to 10<sup>th</sup> February 2018

MT	Subjective	12	19.02.18	23.02.18								
OT-1	11.02.18	Objective	Full syllabus	Full syllabus	Full syllabus	Full syllabus	NA	NA	NA	2	15.02.18	19.02.18
OT-2	18.02.18	Objective	Full syllabus	Full syllabus	Full syllabus	Full syllabus	NA	NA	NA	2	22.02.18	26.02.18