

Periodic Test Type and No.		Periodic Test Date	Test Type	Olympiad Pattern Part Test (OPT), Olympiad Pattern Cumulative Test (OCT), School Exam Preparatory Pattern Test (SEP), Open Test (OT) Syllabus					Mental Ability
Periodic Test Type and No.	Periodic Test Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
OPT-1 (2 Hr)	02.05.2021	Objective	Units and Measurements	General Chemistry (up to Modern atomic theory)	Integers	Nutrition in organisms (till nutrition in amoeba)	Tracing Changes Through A thousand years, Environment	Noun, Reading Comprehension	Playing alphabets, Trains (number series)
OCT-1 (2 Hr)	16.05.2021	Objective	Units and Measurements, Motion and Time (Up to Uniform and Non-uniform motion)	General Chemistry (till atomic number, Mass number)	Integers, Fractions & Decimals (upto conversion of fraction into decimals)	Nutrition in organisms till nutrition process	Equality in Indian Democracy, New Kings and Kingdoms, Inside our Earth, Delhi Sultanat, Our Changing Earth, State Government and its Role in Health	Noun, Reading Comprehension, Pronoun	Playing alphabets, Trains (number series, alphabet series, letter repeating series)
SEP-1 (3 Hr)	04.07.2021	Subjective (Maths & SST)	NA	NA	Integers, Fractions & Decimals, Rational numbers, Lines and Angles	NA	Tracing Changes Through A Thousand Years, Environment, New Kings and Kingdoms, Inside our Earth, Delhi Sultanat, Our Changing Earth, State Government and its Role in Health	NA	NA
SEP-2 (3 Hr)	25.07.2021	Subjective (Sc. & Eng)	Units and Measurement, Motion and Time, Heat	General Chemistry (Introduction, Types of fibres-Natural fibres, Joint fibre-cotton, Jute)	NA	Nutrition in Organisms, Weather climate and Adaptation, Respiration.	NA	Noun, Reading Comprehension, Pronoun, Adjective, Adverb, Essay writing, Notice Writing	NA
OPT-2 (2 Hr)	08.08.2021	Objective	Units and Measurement, Motion and Time, Heat, Sound, Electrical Current and its Effect, Light (Reflection of light)	General Chemistry (from Atomic no.), Fibre to Fabric (upto life history of silk moth)	Fractions & Decimals, Rational numbers, Lines and Angles, Triangles, Congruency of Triangles	Nutrition in organisms (Human), Weather climate and Adaptation, Respiration, Transportation (till blood vessels).	The Mughal Empire, Rulers and Builders, Air and Weather & Climate	Adjective, Adverb, Idioms (All), Tense, Conditionals	Trains (alphabet series, letter repeating series), magical figure, operate the problems, words in problems at the destination, be regular, sit down.
OCT-2 (2 Hr)	05.09.2021	Objective	Units and Measurement, Motion and time, Heat, Sound	General Chemistry (Fibre to Fabric)	Integers, Fractions & Decimals, Rational numbers, Lines and Angles, Triangles, Congruency of Triangles, Exponents, Algebraic Expressions of Triangles, Exponents, Algebraic expression (till multiplication of algebraic expression)	Nutrition in organisms, Weather climate adaptation, Respiration, Transportation	The Mughal Empire Rulers and Builders, Air and Weather & Climate, Gender and The role of women	Reading Comprehension, Irregular verbs (All), Conditionals, Active Passive Voice, Direct Indirect Speech	Playing alphabets, Trains, magical figure, operate the problems, words in problems at the destination, be regular, sit down, magic mystery.
MT-1	Subjective	Subjective	Electrical Current and its Effect	Acids Bases and Salts (upto Some important bases and their uses)	Congruency of Triangles, Exponents, Algebraic Expressions, Data Handling, Probability	Transportation, Forest our life line	Media and Advertisement, Towns, Traders and crafts persons	Subject Verb Agreement, One word Substitution (All)	Magic mystery, compare & out, count down, The time is right (Basic things of dock)
OPT-3 (2 Hr)	24.10.2021	Objective	Units and Measurement, Motion and Time, Heat, Sound, Electrical Current and its Effect, Light (Refraction of light)	Acids Bases and Salts (upto some common examples of physical and chemical changes)	Integers, Fractions & Decimals, Rational numbers, Lines and Angles, Triangles, Congruency of Triangles, Exponents, Algebraic Expressions, Data Handling, Probability, Construction, Symmetry and visualising solid shapes	Forest our life line, Soil (till layers of soil)	Media and advertisement, Towns, Traders and Crafts persons, Natural Vegetation and Wildlife	Reading comprehension, Subject Verb Agreement, Modals	Playing alphabets, Trains, magical figure, operate the problems, words in problems at the destination, be regular, sit down, magic mystery, compare & out, count down, The time is right, figure train
SEP-3 (3 Hr)	05.12.2021	Subjective (Maths & SST)	NA	NA	Lines and Angles, Triangles, Congruency of Triangles, Exponents, Algebraic Construction, Symmetry and visualizing solid shapes	NA	Media and Advertisement, Towns, Traders and Wildlife	NA	NA
SEP-4 (3 Hr)	19.12.2021	Subjective (Sc. & Eng)	Heat (From Units of Heat energy), Sound, Electrical Current and its Effect, Light (Refraction of light)	Physical and Chemical Changes, Water & Waste Water (upto Anomalous expansion of water, Forms of water, water cycle)	NA	Forest our life line, soil, reproduction (till asexual reproduction)	NA	Reading comprehension, Letter & Application Writing, Diary Entry, Direct and Indirect speech, Subject Verb Agreement, Modals, Phrasal Verbs (All), Determiners, Conjunction	NA
OPT-4 (2 Hr)	09.01.2022	Objective	Electrical Current and its Effect (From Electric current), Light	Physical and Chemical Changes, Acids Bases and Salts, Water & Waste Water	Probability, Construction, Symmetry and visualizing solid shapes, Mensuration, Linear equation, Ratio & Proportion	Reproduction, Food	Tribes, Nomads and settled communities, Human environment and settlement, Devotional path to divine, The Human Environment, Physical and topographical and subtropical Region.	Reading Comprehension, Determiners, Conjunction, Preposition	The time is right, figure train & figure out, throw it, get the image, mixture (pictures)
OT-1 (2 Hr)	23.01.2022	Objective	Units and Measurement, Motion and time, Heat, Sound, Electrical Current and its Effect, Light, Wind storm and cyclone, Universe	General Chemistry (Fibre to fabric, Acids Bases and Salts, Physical and Chemical Changes, Water & Waste Water)	Data Handling, Probability, Construction, Symmetry and visualizing solid shapes, Mensuration, Linear equation, Ratio & Proportion, Percentage	Forest our life line, soil, reproduction, food, movement in animals.	NA	NA	the time is right, figure train & figure out, throw it, get the image, mixture
OT-2 (2 Hr)	06.02.2022	Objective	Units and Measurement, Motion and time, Heat, Sound, Electrical Current and its Effect, Light, Wind storm and cyclone, Universe	General Chemistry (Fibre to fabric, Acids Bases and Salts, Physical and Chemical Changes, Water & Waste Water)	Integers, Fractions & Decimals, Rational numbers, Lines and Angles, Triangles, Congruency of Triangles, Exponents, Algebraic Expressions, Data Handling, Probability, Construction, Symmetry and visualizing solid shapes, Mensuration, Linear equation, Ratio & Proportion, Percentage	Nutrition in organisms, Weather climate adaptation, Respiration, Transportation, Forest our life line, soil, reproduction, food, movement in animals.	NA	NA	Playing alphabets, Trains, magical figure, operate the problems, words in problems, at the destination, be regular, sit down, magic mystery, compare & out, count down, The time is right, figure train & figure out, throw it, get the image, mixture
MT-2	Subjective	Subjective							

Major Test Dates : 6th to 18th Sep 2021  
Date of Reshuffling of Batches: 14.06.2021 | 27.09.2021



## COURSE PLANNER

**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.

**CLASS**  
**7**  
Medium: **English**

**REGULAR PROGRAM** ▶ Academic Session: 2021-2022

**Course Commencement: 05.04.2021 | Course Ends: 19.02.2022**

### 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 2021-22. 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:** 440
- ♦ **Duration of one lecture:** 50 minutes
- ♦ **Total Duration of Classroom Teaching:** 367 hrs
- ♦ **Total Duration of Testing:** 54 hrs
- ♦ **Total Academic Hours:** 421 hrs

### HOLIDAYS / VACATIONS

- 1. Resonance Foundation Day:** 11<sup>th</sup> April 2021
- 2. Summer Break:** 31<sup>st</sup> May to 13<sup>th</sup> June 2021
- 3. Independence Day:** 15<sup>th</sup> August, 2021
- 4. Raksha Bandhan:** 22<sup>nd</sup> August, 2021
- 5. Anant Chaturdash:** 19<sup>th</sup> September, 2021
- 6. Dussehra:** 15<sup>th</sup> October, 2021
- 7. Deepawali Holidays:** 1<sup>st</sup> to 07<sup>th</sup> November, 2021
- 8. Winter Break:** 20<sup>th</sup> to 26<sup>th</sup> December, 2021
- 9. Makar Sankranti:** 14<sup>th</sup> January 2022
- 10. Republic Day:** 26<sup>th</sup> January, 2022. (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: 29<sup>th</sup> May, 2021 | 04<sup>th</sup> September, 2021 | 27<sup>th</sup> November, 2021 | 22<sup>nd</sup> January, 2022

**CALL: 0744-277769 | SMS: RESO PCCP at 56677**

**PCCP Head Office:** CG TOWER-2, Plot No. A-51 (A), IPIA, Behind City Mall, Jhalawar Road, Kota (Raj.)-324005

**E-mail:** pccp@resonance.ac.in | **Website:** www.pccp.resonance.ac.in

# SUBJECT WISE SYLLABUS PLAN

## MATHEMATICS

S.No.	Topic Name	No. of Classes
1.	Integers	7
2.	Fractions & Decimals	10
3.	Rational numbers	8
4.	Lines and Angles	8
5.	Triangles	7
6.	Congruency of Triangles	6
7.	Exponents	3
8.	Algebraic Expressions	8
9.	Data Handling	6
10.	Probability	3
11.	Construction	4
12.	Symmetry and visualizing solid shapes	3
13.	Mensuration	9
14.	Linear equation	4
15.	Ratio & Proportion	4
16.	Percentage	4
17.	Profit, Loss & Discount	5
18.	Simple Interest	4
19.	Revision	8
<b>Total</b>		<b>110</b>

## CHEMISTRY

S.No.	Topic Name	No. of Classes
1.	General Chemistry	16
2.	Fibre to Fabric	9
3.	Acids, Bases and Salts	13
4.	Physical and Chemical Changes	6
5.	Water - A Precious Resource	12
<b>Total</b>		<b>56</b>

## SOCIAL SCIENCE

S.No.	Topic Name	No. of Classes
1.	Tracing Changes Through A Thousand Years	2
2.	Environment	2
3.	Equality in Indian Democracy	4
4.	New Kings and Kingdoms	3
5.	Inside our Earth	2
6.	Delhi Sultans	3
7.	Our Changing Earth	3
8.	State Government and its Role in Health	3
9.	The Mughal Empire	4
10.	Rulers and Builders	4
11.	Air and Weather & Climate	3
12.	Gender and the role of women	4
13.	Map work	2
14.	Water	4
15.	Media and Advertisemenmt	4
16.	Towns, Traders and Craftpersons	4
17.	Natural vegetation and wild life	2
18.	Tribes ,nomads and settled communities	2
19.	Human enviornement and settlement	2
20.	Devotional path to divine	3
21.	The Human Enviornment Interaction- TheTropical and subtropical Region	2
22.	The making of regional Culture	3
23.	Market around us	3
24.	Life in Temperate grassland	2
25.	Life in Deserts	1
26.	Eighteenth century Political Formation	2
<b>Total</b>		<b>72</b>

## PHYSICS

S.No.	Topic Name	No. of Classes
1.	Units and Measurements	5
2.	Motion and Time	9
3.	Heat	9
4.	Sound	7
5.	Electrical Current and its Effect	8
6.	Light	10
7.	Winds, Storms and Cyclones	5
8.	Universe	3
<b>Total</b>		<b>56</b>

## ENGLISH

S.No.	Topic Name	No. of Classes
1.	Noun	3
2.	Reading comprehension	1
3.	Pronoun	3
4.	Adjective	3
5.	Adverb	2
6.	Essay Writing, Notice writing, Idioms	2
7.	Article, Report, Speech writing	1
8.	Irregular Verbs	1
9.	Tense	4
10.	Conditionals	2
11.	Active Passive	3
12.	Letter Writing, Application and Diary entry	1
13.	Direct and Indirect speech	3
14.	One word substitution	1
15.	Subject Verb Agreement	3
16.	Modals	3
17.	Phrasal verbs	1
18.	Determiners	3
19.	Conjunctions	2
20.	Preposition	4
21.	Story Writing	1
22.	The Sentence	2
23.	Question Tags, Spoken English Activity	2
24.	Homophones	2
25.	Synonyms and antonyms	3
26.	Revision	2
<b>Total</b>		<b>58</b>

## MENTAL ABILITY

S.No.	Topic Name	No. of Classes
1.	Playing Alphabets	2
2.	Trains	3
3.	Magical figure	1
4.	Operate the problems	2
5.	Words in problem	2
6.	At the destination	1
7.	Be regular	2
8.	Sit down	1
9.	Magic mystery	2
10.	Compare & out	2
11.	Count down	1
12.	The time is right	2
13.	Figure train & Figure out	2
14.	Throw it	1
15.	Get the image	2
16.	Mixture	5
17.	Revision	4
<b>Total</b>		<b>35</b>

## BIOLOGY

S.No.	Topic Name	No. of Classes
1.	Nutrition in organisms	8
2.	Weather, climate and Adaptation	5
3.	Respiration	6
4.	Transportation	7
5.	Forest our life line	5
6.	Soil	5
7.	Reproduction	7
8.	Food	5
9.	Movement in animals	7
<b>Total</b>		<b>55</b>

## School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Solve Date	Check Date	Test Syllabus					
			Physics	Chemistry	Mathematics	Biology	English	Social Science
1	5/4 to 20/4	22/4 to 27/4	Units & Measurements		Integers		Noun, Reading comprehension	
2	22/4 to 18/5	20/5 to 25/5	Motion and Time		fractions and decimals		Pronoun, Adjective	*Tracing Changes Through A thousand years+ Equality In Indian Democracy + Inside our Earth*
3	20/5 to 8/6	24/6 to 29/6			rational number	Nutrition in Organisms	Adverb, Essay & Notice Writing	Environment+New Kings and kingdoms + The Delhi Sultans
4	24/6 to 13/7	22/7 to 27/7		"GENERAL CHEMISTRY"	"lines and angles"	Weather, climate & adaptation	Irregular Verbs	
5	15/7 to 27/7	26/8 to 31/8	Heat		Triangles	Respiration		State Government and its Role in Health + Rulers and Builders
6	29/7 to 10/8	30/9 to 4/10			"Congruency of Triangles"	Transportation	Article, Report and Speech writing	Our Changing Earth + The Mughal Empire + AIR
7	12/8 to 24/8	25/8 to 29/8	Sound	"Fibre to Fabric "	Exponents	Forest our life line	Tense, Active Passive,	
8	26/8 to 9/9	30/9 to 5/10		"Acids, Bases and Salts "	"Algebraic Expressions"	Soil	Letter Writing and Diary entry	Gender & the role of women+WATER
9	9/9 to 19/10	4/11 to 9/11			Statistics		Conditionals,	Media and Advertisement
10	21/10 to 26/10	25/11 to 30/11	"Electrical Current & Its Effect"		Probability	Reproduction	Direct & Indirect speech	Town traders and craft persons
11	28/10 to 2/11	4/11 to 9/11			construction		One word substitution,	Natural vegetation and wild life
12	4/11 to 16/11	25/11 to 30/11	Light		"symmetry & visualizing solid shapes"		Modals, Phrasal verbs	Tribes, Nomads & settled communities
13	18/11 to 7/12	6/1 to 11/1			Mensuration	Food	Subject Verb Agreement,	Human environment and settlement
14	9/12 to 21/12	20/1 to 25/1		Physical & Chemical Changes	linear equation		Story Writing, Determiners	The Tropical and subtropical Region
15	23/12 to 4/1	6/1 to 11/1			"Ratio and Proportion"		Conjunctions, The Sentence	Devotional path to divine + The making of regional Culture
16	6/1 to 18/1	20/1 to 25/1			Percentage		Preposition, Question Tags	Market
17	20/1 to 1/2	10/2 to 15/2	Wind, Storm & Cyclones		"Profit loss discount"	Movement in animals	Homophones,	Life in Temperate grassland + Eighteenth century Political Formation
18	3/2 to 8/2	10/2 to 15/2	Universe	"Water-A Precious Resource"	Simple Interest		Synonyms and antonyms	Life in the Desert