

Academic Planning & Test Grid

Olympiad Pattern Part Test (OPT), Olympiad Pattern Cumulative Test (OCT), School Exam Preparatory Pattern Test (SEP), Open Test (OT) Syllabus									
Periodic Test Type and No.	Periodic Test Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
OPT-1 (2 Hr)	24.04.2021	Objective	Force (Up to Types of force, Contact force)	Synthetic Fibre and Plastics (till polyester, acrylic)	Rational Numbers (upto Multiplication)	Crop production and management (till sowing)	How, When and Where, Resources, Types and Development	Noun, Reading Comprehension	Test of alphabets, logical numbers
OCT-1 (2 Hr)	09.05.2021	Objective	Force, Pressure (upto Units of pressure)	synthetic fibres and plastics (till blended fibres)	Rational Numbers	Crop production and management (till harvesting)	How, When and Where, Resources, Types and Development, The Indian Constitution, Understanding Secularism	Noun, Reading Comprehension, Pronoun, Tense, Notice Writing, Essay Writing, Conditionals, Adjective, Irregular Verbs	Test of alphabets, logical numbers, Logical alphabets, repeat the letters
SEP-1 (3 Hr)	26.06.2021	Subjective (Sc. & Eng)	Force, Pressure	Synthetic fibres & plastics, Metals and Non-Metals (till physical properties of metals)	NA	Micro organisms (till bacteria)	NA	NA	NA
SEP-2 (3 Hr)	18.07.2021	Subjective (Maths & SST)	NA	NA	Rational Numbers, Square and square root, Cubes and cube roots, Linear equation in one variable, Quadrilaterals (Upto Parallelogram)	NA	How, When and Where, Resources, Types and Development, The Indian Constitution, Understanding Secularism, From Trade to Territory, Ruling the Country, Land, Soil, Water and Natural Vegetation and Wildlife Resources, Mineral and power resources, Tribal Dikus and the vision of a golden age, Land, Soil, Water and Natural Vegetation and Wildlife Resources	NA	NA
OPT-2 (2 Hr)	01.08.2021	Objective	Force (From Non-contact force), Pressure, Friction, Sound (up to intensity of sound)	Synthetic fibres & plastics (From Plastics), Metals and Non-Metals (till chemical properties of non-metals)	Squares and square roots, Cubes and cube roots, Linear equation in one variable, Quadrilaterals	Crop production and management, Micro organisms (till bacteria)	From Trade to Territory, Ruling the Country, Land, Soil, Water and Natural Vegetation and Wildlife Resources, Mineral and power resources, When people rebel, Why do we need a Parliament	Adverb, One Word Substitution (All), Active- Passive Voice, Direct and Indirect Speech	Logical alphabets, repeat the letters, secret of the words, journey ends, sequencing
OCT-2 (2 Hr)	29.08.2021	Objective	Force, Pressure, Friction, Sound	Synthetic fibres and Plastics, Metals and Non-metals (Uses of non-metals)	Rational numbers, Squares and square root, Cubes and cube roots, Linear equation in one variable, Quadrilaterals, Playing with numbers, Algebraic expressions	crop production, microorganisms, conservation of plants and animals (till biosphere reserve)	From Trade to Territory, Ruling the Country, Land, Soil, Water and Natural Vegetation and Wildlife Resources, Mineral and power resources, When people rebel, Why do we need a Parliament, Agriculture, Colonialism & the story of an imperial city, manufacturing industries	Reading Comprehension, Adjective, Adverb, Active- Passive Voice, Direct and Indirect Speech, Subject Verb Agreement	Test of alphabets, logical numbers, Logical alphabets, repeat the letters, magic of figures, operations, secret of the words, journey ends, sequencing, blood sample, sit over here, unlock the mystery, pictures, throw it over here, unlock the mystery, pictures, throw it
MT-1	Subjective	Subjective	Sound (From Reflection (up to Charging by induction))	Metals and Non-metals, Coal and Petroleum (till fossil fuels)	Playing with numbers Algebraic expressions, Algebraic identities, Exponents and powers	Conservation of plant and animals, Cellular level of organisation (till cell membrane)	Weavers, Iron smelters and factory owners, Understanding Laws	Reading Comprehension, Metaphors, Similes, Synonyms and Antonyms (1 to 50)	Sit over here, unlock the mystery, pictures
OPT-3 (2 Hr)	17.10.2021	Objective	Force, Pressure, Friction & Sound, Electricity (upto Electrical conductivity)	Synthetic Fibre and Plastics, Metals and Non-metals, coal and petroleum (upto natural gas)	Rational numbers, Squares and square root, Cubes and cube roots, Linear equation in one variable, Quadrilaterals, Playing with numbers, Algebraic expressions, Algebraic identities, Exponents and power, Percentage and its application	Crop production and management, Micro organisms (till bacteria)	Weavers, Iron smelters and factory owners, Understanding Laws	Tense, Irregular Verbs (All), One Word Substitution (All), Synonyms and Antonyms (51 to 100)	Logical alphabets, repeat the letters, magic of figures, operations, secret of the words, journey ends, sequencing, blood sample, sit over here, unlock the mystery, pictures, throw it
SEP-3 (3 Hr)	28.11.2021	Subjective (Sc. & Eng)	Friction (from Friction is an necessary evil), Sound, Electricity	Coal and Petroleum	NA	Micro organisms (till bacteria)	NA	Reading Comprehension, Direct and Indirect Speech, Subject Verb Agreement, Metaphors, Similes, Synonyms and Antonyms (All), Letter Writing, Story Writing, Idioms (1 to 50)	NA
SEP-4 (3 Hr)	12.12.2021	Subjective (Maths & SST)	NA	NA	Construction of quadrilaterals, Playing with numbers, Algebraic expressions, Algebraic identities, Exponents and inverse variation (upto time, speed and distance)	NA	Why do we need a Parliament, Agriculture, Colonialism & the story of an imperial city, manufacturing industries, Weavers, Iron smelters and factory owners, 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	NA	NA
OPT-4 (2 Hr)	09.01.2022	Objective	Electricity (from Electric symbols, Electric circuit, Electricity & its types), Light (upto Image formation by a concave mirror, image formation by a convex mirror)	Coal and Petroleum (from Fossil Fuels- Coal), Combustion and flame (up to Spherical flame)	Percentage and its application, Compound Interest, Direct and inverse variation, Visualising Solid Shapes	Cellular level of organisation, Reproduction in animals	Women, Caste and Social Reforms, Understanding our Criminal, Justice System, Human Resources, Understanding and Tackling Marginalisation, The changing world of visual arts, The Indian National Movement, Water and the people of Chennai	Reading comprehension, Determiners, Idioms (All), Preposition	date & time, compare & out, figure situation, mixture
OT-1 (2 Hr)	23.01.2022	Objective	Electricity, Light, Earthquakes	Coal and petroleum, Combustion and Flame	Exponents and power, Percentage and its application, Compound Interest, Direct and inverse variation, Visualising Solid Shapes, Mensuration, Introduction to graph	Cellular level of organisation, Reproduction, Pollution of air and water	NA	NA	sit over here, unlock the mystery, pictures, throw it, date & time, compare & out, figure situation, mixture
OT-2 (2 Hr)	06.02.2022	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	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, Introduction to graph, Data handling, Probability	Crop production and management, Micro Organisms (till bacteria), Fertilizers, Air & Water, Reaching the Age of Adolescence, Cellular level of organisation	NA	NA	Test of alphabets, logical numbers, Logical alphabets, repeat the letters, magic of figures, operations, secret of the words, journey ends, sequencing, blood sample sit over here, unlock the mystery, pictures, throw it, date & time, compare & out, figure situation, mixture
MT-2	Subjective	Subjective	NA	NA	NA	NA	NA	NA	NA

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



Resonance®
Educating for better tomorrow
Pre-foundation Career Care Programmes (PCCP) Division

COURSE PLANNER

CLASS
8
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.

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:** 436
- ♦ **Duration of one lecture:** 50 minutes
- ♦ **Total Duration of Classroom Teaching:** 363 hrs
- ♦ **Total Duration of Testing:** 54 hrs
- ♦ **Total Academic Hours:** 417 hrs

HOLIDAYS / VACATIONS

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

CALL: 0744-2777769 | SMS: RESO PCCP at 56677

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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, Story Writing	1
18.	Diary Writing	1
19.	Article Writing	1
20.	Idioms	1
21.	Determiners	2
22.	Preposition	3
23.	Conjunction	3
24.	Homophones, Homonyms	1
25.	Speech Writing, Report Writing	1
26.	Spoken English Activity	2
27.	Revision	8
Total		54

PHYSICS

S.No.	Topic Name	No. of Classes
1.	Force	6
2.	Pressure	5
3.	Friction	4
4.	Sound	12
5.	Electricity	13
6.	Light	12
7.	Earthquakes	1
8.	" Rain, Thunder and Lightning"	1
9.	The Night Sky	2
Total		56

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"	1
5.	From Trade to Territory	4
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	3
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	2
22.	Understanding and Tackling Marginalisation	2
23.	The Changing World of Visual Arts	2
24.	"The Indian National Movement-I"	3
25.	Water and the People of Chennai	1
26.	The Indian National Movement-II	6
27.	Revision	5
Total		71

BIOLOGY

S.No.	Topic Name	No. of Classes
1.	Crop Production and Management	8
2.	Micro Organisms Friend & Foe	10
3.	Conservation of Plants and Animals	10
4.	Cellular Level of Organisation	13
5.	Reproduction in Animals	4
6.	Pollution of Air and Water	3
7.	Reaching the Age of Adolescence	8
Total		56

MATHEMATICS

S.No.	Topic Name	No. of Classes
1.	Rational Numbers	9
2.	"Squares & Square Roots"	9
3.	Cubes and Cube Roots	6
4.	Linear Equation in One Variable	5
5.	Quadrilaterals	8
6.	Construction of Quadrilaterals	3
7.	Playing with Numbers	5
8.	Algebraic Expressions	7
9.	Algebraic Identities	6
10.	Exponents and Power	4
11.	Percentage and its Application	8
12.	Compound Interest	3
13.	Direct and Inverse Variation	7
14.	Visualising Solid Shapes	5
15.	Mensuration	6
16.	Introduction to Graph	3
17.	Data Handling	3
18.	Probability	5
19.	Revision	7
Total		109

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	2
8.	Sequencing	2
9.	Blood Sample	2
10.	Sit Over Here	2
11.	Unlock the Mystery	2
12.	Pictures	2
13.	Throw it	1
14.	Date and Time	3
15.	Compare & Out	1
16.	Figure Situation	2
17.	Mixture	4
Total		33

CHEMISTRY

S.No.	Topic Name	No. of Classes
1.	Synthetic Fibre and Plastics	12
2.	Metals and Non - Metals	15
3.	Coal and Petroleum	11
4.	Combustion and Flame	14
5.	Revision	5
Total		57

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			Rational Numbers		Noun, " Notice Writing,	How, When and Where
2	22/4 to 18/5	20/5 to 25/5	Force		squares and square roots	Crop production & Management	Message Writing"	Resources, Types and Development + From Trade to Territory
3	20/5 to 1/6	24/6 to 29/6	Pressure		Cube and cube roots		Pronoun, Reading Comprehension	The Indian Constitution & Understanding Secularism + Ruling the Country Side & Tribal, Dikus and the vision of a Golden age
4	3/6 to 29/6	29/7 to 3/8	Friction	Synthetic Fibre and Plastics	Linear equation in one variable	Micro organism friends & foe	Tense, Adjective	Land, Soil, Water and Natural veg. and Wildlife Resources
5	1/7 to 20/7	2/9 to 7/9			quadrilateral		Conditionals, Irregular Verbs	Mineral and Power Resource
6	22/7 to 27/7	29/7 to 3/8	Sound		Construction		Adverb, Homophones, Homonyms,	When people rebel + Agriculture
7	29/7 to 10/8	2/9 to 7/9		Metals and Non - Metals	playing with numbers	Conservation of Plants & Animals	One Word Substitution	Why do we need a parliament + Colonialism & the story of an imperial city
8	12/8 to 24/8	14/10 to 19/10			Algebraic expression		Active and Passive Voice,	
9	26/8 to 7/9	2/9 to 7/9			Algebraic Identities		Subject Verb Agreement	Manufacturing Industries
10	9/9 to 12/10	14/10 to 19/10	Electricity		Exponents and power		Direct and Indirect Speech,	Weavers, Iron smelters and factory owners+ Civilizing the Native, Educating the nation
11	14/10 to 26/10	2/12 to 7/12		Coal and Petroleum	Percentage and its application	Cellular level of Organization	Modals, Phrasal Verbs	Understanding Laws + Judiciary + Understanding our Criminal justice system
12	28/10 to 2/11	23/12 to 28/12			Compound Interest		Letter Writing, Story Writing,	Women, Caste and Social Reforms+ Human Resources+ The Changing world of Visual Arts
13	4/11 to 30/11	2/12 to 7/12	Light		Direct and inverse variation	Reproduction In animals	Speech Writing, Report Writing	Understanding Marginalisation + Confronting Marginalisation
14	2/12 to 14/12	23/12 to 28/12			Visualising Solid Shape		Synonyms and Antonyms,	
15	16/12 to 4/1	20/1 to 25/1	Earthquakes		Mensuration	Pollution of air and water	Article Writing	
16	6/1 to 11/1	3/2 to 8/2	Rain, Thunder and lightning		Introduction to graph		Diary Writing, Determiners	
17	13/1 to 18/1	20/1 to 25/1			Data Handling		Idioms and Phrases, Preposition	The Indian National Movement-I + The Indian National Movement-II
18	20/1 to 8/2	3/2 to 8/2	Night Sky	Combustion and Flame	Probability	Reaching the age of adolescence	Conjunction	Water and the people of Chennai + Law and Social Justice