



Resonance®
Educating for better tomorrow

Pre-foundation Career Care Programmes (PCCP) Division

COURSE PLANNER

CLASS

9

Medium: **English**

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

REGULAR PROGRAM ▶ Academic Session: 2019-2020

Course Commencement: 02.04.2019 | Course Ends: 18.02.2020

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 Allahabad (UP) 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 2019-20. 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:** 399 hrs
- ♦ **Total Duration of Testing:** 72 hrs
- ♦ **Total Academic Hours:** 471 hrs

HOLIDAYS / VACATIONS

1. Summer Break: 17th to 30th June 2019 | 2. Independence Day: 15th August, 2019 | 3. Raksha Bandhan: 15th August, 2019 | 4. Anant Chaturdashi: 12th September, 2019 | 5. Dussehra: 8th October, 2019 | 6. Deepawali Holidays: 24th to 30th October, 2019 | 7. Makar Sankranti: 14th January 2020 | 8. Republic Day: 26th January, 2020.

PTSM Schedule: 26th May, 2019 | 15th September, 2019 | 08th December, 2019 | 01st February, 2020

CALL: 0744-6655022, 7525015591/92/93 |

KP COMPLEX: 13A/1B Opp. Hotel Allahabad Regency, Tashkand Marg, Civil Line, Allahabad (UP) - 211001

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

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.	Polynomial	11
5.	Introduction to euclid geometry	3
6.	Lines and angles	8
7.	Congruent triangle	9
8.	Quadrilaterals	8
9.	Circles	9
10.	Heron's formula	4
11.	Area of parallelograms and triangles	6
12.	Surface area and volume	9
13.	Statistics	9
14.	Probability	2
15.	Constructions	5
16.	Revision	2
Total		101

CHEMISTRY

S.No.	Topic Name	No. of Classes
1.	Matter in our surrounding	11
2.	Is matter Around us Pure	15
3.	Structure of Atom	13
4.	Atoms & Molecules	8
Total		47

PHYSICS

S.No.	Topic Name	No. of Classes
1.	Basic Mathematics	2
2.	Motion	12
3.	Circular Motion	2
4.	Force & Laws of Motion	8
5.	Gravitation	10
6.	Fluid	6
7.	Work, Energy, Power	9
8.	Wave, Motion & Sound	13
Total		62

BIOLOGY

S.No.	Topic Name	No. of Classes
1.	Cell	13
2.	Tissue	11
3.	Improvement of food resources	11
4.	Biodiversity	18
5.	Why do we fall ill	5
6.	Natural resources	3
7.	Revision	3
Total		63

ENGLISH

S.No.	Topic Name	No. of Classes
1.	Tense	2
2.	Conditionals	1
3.	Determiners	1
4.	Subject Verb Agreement	2
5.	The Fun they had	1
6.	The Road Not Taken	1
7.	The Lost child	2
8.	The sound of music	2
9.	The Adventures of TOTO	1
10.	Reported speech	2
11.	Writing section	1
12.	Wind	1
13.	Iswaran the story teller	1
14.	Rain on the roof	1
15.	The little girl	2
16.	Modals	2
17.	Pronoun, Adjective	1
18.	A truly beautiful mind	1
19.	In the kingdom of fools	1
20.	The lake Isle of Innisfree	1
21.	The snake and the mirror, A legend of the northland	2
22.	The happy prince	2
23.	My childhood, No men are foreign	3
24.	Active and Passive voice	2
25.	Packing	2
26.	Prepositions	3
27.	Weathering the storm in Ersama	2
28.	The last leaf	2
29.	The duck and the kangaroo	1
30.	Reach for the top	2
31.	Connectors	2
32.	A house is not a home	2
33.	On killing a tree	1
34.	The bond of love, Clauses	2
35.	The snake trying, Kathmandu A slumber did my spirit seal	3
36.	The accidental tourist	2
37.	If I were You	2
38.	The beggar	2
Total		64

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	4
5.	Socialism in Europe and The Russian Revolution	5
6.	What is Democracy ? Why Democracy?	3
7.	People as Resource	2
8.	Constitutional Design	4
9.	Drainage	3
10.	Nazism and The rise of Hitler	2
11.	Poverty as a Challenge	3
12.	Electoral Politics	4
13.	Climate	3
14.	Forest Society and Colonialism	3
15.	Natural Vegetation and Wildlife	2
16.	Pastoralists in the Modern World	3
17.	Working of Institutions	2
18.	Food Security in India	3
19.	Democratic Rights	3
20.	"Peasants and Farmers –The Coming of Modern Agriculture in England"	3
21.	Population	3
	Total	62

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 relation	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	2
	Total	33

School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Solve Date	Check Date	Test Syllabus					
			Physics	Chemistry	Mathematics	Biology	English	Social Science
1	1/4 to 4/5	6/5 to 11/5			Number System		Tense, Conditionals, Determiners Subject Verb Agreement	India – Size and Location + The Story of Village Palampur
2	29/4 to 04/5	1/7 to 6/7	Motion	Matter in our Surroundings	Coordinate geometry	Cell	The Fun they had, The Road Not Taken, The Lost child, The sound of music	The French Revolution + Socialism in Europe & The Russian Revolution
3	6/5 to 18/5	27/5 to 1/6	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	20/5 to 29/5	1/7 to 6/7	Force and Laws of Motion		Polynomial		Iswaran the story teller, Rain on the roof The little girl	People as Resource + Drainage
5	01/7 to 6/7	29/7 to 3/8		Is Matter around us Pure	Introduction to euclid geometry	Improvement in food Resources	Modals, Pronoun, Adjective A truly beautiful mind	Constitutional Design + Nazism and The rise of Hitler
6	08/7 to 27/7	30/9 to 5/10	Gravitation		Lines and angles		In the kingdom of fools The lake Isle of Innisfree	
7	29/7 to 17/8	28/10 to 2/11	Fluid		Congruent triangle		The snake and the mirror, A legend of the nardland, The happy prince	Poverty as a Challenge
8	19/8 to 7/8	01/10 to 06/10			Quadrilaterals		Novel (Term-1) My childhood, No men are foreign	Electoral Politics
9	30/9 to 26/10	29/10 to 3/11			Circles		Active and Passive voice Packing	Climate + Natural Vegetation & Wildlife
10	28/10 to 2/11	30/12 to 4/01	Work Energy Power	Structure of Atom	Heron's formula	Bio Diversity	Prepositions Weathering the storm in Ersama	Forest Society and Colonialism + Pastoralists in the Modern World + Food Security in India
11	4/11 to 23/11	25/11 to 30/11			Area of parallelograms and triangles	Why do we fall ill ?	The last leaf, The duck and the kangaroo Resch for the top	Working of Institutions + Democratic Rights
12	25/11 to 21/12	29/12 to 3/1			Surface area and volume		Connectors The last leaf, The duck and the kangaroo	Peasants and Farmers - The Coming of Modern Agriculture in England + Population
13	30/12 to 18/1	25/1 to 31/1			Statistics		A house is not a home On killing a tree, The bond of love, Clauses	
14	20/1 to 25/1	27/1 to 1/2	Wave, Motion & Sound	Atoms and Molecules	Probability	Natural Resources	The snake trying, Kathmandu A slumber did my spirit seal	
15	27/1 to 1/2	27/1 to 1/2			Constructions		The accidental tourist, If I were You The beggar, Novel (Term-2)	

NTSE Pattern Part Test (NPT) , NTSE Pattern Cumulative Test (NCT), School Exam Preparatory Pattern Test (SEP) Syllabus									
Periodic Test Type and No.	PT Date	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
NPT-1 (4 Hr)	28.04.19	Objective	Basic Mathematics (trigonometry), Motion (up to Rectangular component of vector) RBSE-IX: Stars, Galaxies , Constellation	Matter in our Surrounding (up to Classification of matter)	Number System (except Surds and Exponents)	Cell (up to transposition of membrane)	India – Size and Location, The Story of Village Palampur, The French Revolution + IX RBSE (Political Science)	NA	Logical Alphabet Number, Coding-Decoding (Letter-Letter Coding, Letter-Number Coding)
NCT-1 (4 Hr)	19.05.19	Objective	Basic Mathematics, Motion (up to types of motion)	Matter in our Surrounding (up to Interconversion of states of matter)	Number System	Cell (up to golgibody)	India – Size and Location, The Story of Village Palampur, The French Revolution, Physical Features of India	NA	Logical Alphabet Number, Coding-Decoding, Number Series
SEP-1 (3 Hr)	07.07.19	Subjective (Sc. & Eng)	Motion , Circular Motion, Force and Laws of Motion (upto types of inertia)	Matter in Our Surrounding	NA	Cell, Tissue (up to plant tissue)	NA	Tense, Conditional, Determiners, Subject Verb Agreement, The fun they had, The Road not taken, The lost child, Writing Section (Story writing & diary Writing)	NA
SEP-2 (3 Hr)	21.07.19	Subjective (Maths & SST)	NA	NA	Number System, Coordinate Geometry, Linear Equation in two Variable, Polynomials	NA	India-Size and Location, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and Russian Revolution, What is Democracy? Why Democracy?	NA	NA
NPT-2 (4 Hr)	11.08.19	Objective	Motion (from Vector addition), Circular Motion, Force and Laws of Motion RBSE-IX: Planets, Moon and Motion of Earth,	Matter in our Surrounding , Is matter Around us Pure (upto Separation techniques: Separation of mixture of two solids.)	Class IX :Number System (Only Surds and Exponent), Coordinate Geometry, Linear Equation in two Variables, Polynomials, Introduction to euclid Geometry, Lines and Angles RBSE (IX) :HCF and LCM of Polynomials, Angle related to polygon	Tissue, Improvement of food Resources (up to Cropping pattern)	What is Democracy? Why Democracy?, People as a resource, Constitutional Design, Drainage, Nazism and the rise of Hitler + IX RBSE (Geography All)	NA	Coding-Decoding (Puzzle based Coding, Substitution Coding, Column Coding), Number Series, Series of Letters, Missing term in Figure, Mathematical Operation,, Direction Sense
NCT-2 (4 Hr)	01.09.19	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation (up to variation of 'g')	Matter in our Surrounding, Is matter Around us Pure (upto Interconversion of states of matter) upto Separation techniques: Separation of mixture of two solids.)	Number System, Coordinate Geometry, Linear Equation in two Variable, Polynomials, Introduction to Euclid Geometry, Lines and Angles, Congruent Triangle	Cell, Tissue, Improvement of food Resources (up to pisciculture.)	Socialism in Europe and Russian Revolution, What is Democracy? Why Democracy?, People as a Resource, Constitutional Design, Drainage, Nazism and the rise of Hitler, Poverty as a challenge	NA	Logical Alphabet Number, Coding-Decoding, Number Series, Series of Letters, Missing term in Figure, Mathematical Operation, Direction Sense, Sealing Arrangement, Blood Relation, Puzzle test
MT-1		Subjective					Major Test Dates: 9th to 21st Sep 2019		
NPT-3 (4 Hr)	20.10.19	Objective	Gravitation , Fluid (up to factors affecting buoyant force) RBSE-IX: Internal structure of earth and earthquake	Is matter Around us Pure (from Separation Techniques : Separation of mixture of solid and liquid) , Structure of Atom (up to Electronic configuration)	Congruent Triangles, Quadrilaterals, Circles (except cyclic quadrilaterals)	Improvement of food Resources, Biodiversity (up to taxonomy, classification of organism).	Electoral Politics , Climate, Forest Society and Colonialism + IX RBSE (History All)	NA	Blood Relation, Puzzle test, Venn diagram, Syllogism
NCT-3 (4 Hr)	10.11.19	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation, Fluid	Is matter around us pure , Structure of Atom (upto Quantum numbers)	Number System, Coordinate Geometry, Linear Equation in two Variable, Polynomials, Introduction to Euclid Geometry, Lines and Angles, Congruent Triangle, Quadrilateral, Circles	Cell, Tissue, Improvement of food Resources, Biodiversity (up to Phanerogames)	Physical Features of India, Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy?, People as Resource, Drainage, Constitutional Design, Nazism and The rise of Hitler, Poverty as a Challenge, Electoral Politics, Climate, Forest Society and Colonialism, Natural Vegetation and Wildlife	NA	Logical Alphabet Number, Coding-Decoding, Number Series, Series of Letters, Missing term in figure, Mathematical Operation, Direction Sense, Sealing Arrangement, Blood Relation, Puzzle test, Venn diagram, Syllogism, Day, Date and Time Sequence
SEP-3 (3 Hr)	24.11.19	Subjective (Sc. & Eng)	Force and Laws of Motion (from Momentum), Gravitation, Fluid, Work Energy and Power (all Energy, diff forms of energy, Mechanical energy)	Is matter around us pure , Structure of Atom	NA	Improvement of food Resources, Bio diversity (up to Coelentrata.	NA	Wind, Iswaran the story teller, Modals, A truly beautiful mind, The little girl, The lake Isle of Innisfree, The snake and the mirror, The happy prince, Writing section (Article writing), My childhood, No men are foreign, Active & passive voice, Preposition	NA
SEP-4 (3 Hr)	08.12.19	Subjective (Maths & SST)	NA	NA	Circles, Congruent Triangle, Quadrilateral	NA	Climate, Forest society and Colonialism, Natural Vegetation and Wildlife, Working of Institutions, Food Security	NA	NA
NCT-4 (4 Hr)	12.01.20	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation	Matter in our surrounding , Is matter Around us Pure, Atoms and Molecules (upto Chemical Formula)	Number System, Coordinate Geometry, Linear Equation in two Variable, Polynomials, Introduction to Euclid Geometry, Lines and Angles, Congruent Triangles	Cell, Tissue, Improvement of food Resources	India – Size and Location, The Story of Village Palampur, The French Revolution Physical Features of India , Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy?, People as Resource, Drainage, Constitutional Design, Nazism and The rise of Hitler, Poverty as a challenge, Electoral Politics	NA	Logical Alphabet Number, Coding-Decoding, Number Series, Series of Letters, Missing term in figure, Mathematical Operation, Direction Sense, Sealing Arrangement, Blood Relation, Puzzle test, Venn diagram, Syllogism
OT-1 (4 Hr)	02.02.20	Objective	Fluid, Work Energy and Power, Wave Motion and Sound	Structure of Atom , Atoms & Molecules	Quadrilatera I, Circles, Herons Formula, Area of Parallelogram and Triangle, Surface area and Volume, Statistics, Probability	Biodiversity, Why do we fall ill, Natural Resources	Climate , Forest Society and Colonialism, Natural Vegetation and Wildlife, Pastoralists in the Modern World , Working of Institutions, Food Security in India , Democratic Rights ,Peasants and Farmers –The Coming of Modern Agriculture in England, Population	NA	Day, Date and Time Sequence, Dice test, Cube test, Mirror and Water image, Paper cutting and folding, Figure partition & counting, Nonverbal Series, Nonverbal Analogy, Nonverbal Classification
OT-2 (4 Hr)	09.02.20	Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation, Fluid, Work Energy and Power, Wave Motion and Sound	Matter in our surrounding, Is matter Around us Pure, Structure of Atom , Atoms & Molecules	Number System, Coordinate Geometry, Linear Equation in two Variable, Polynomials, Introduction to Euclid Geometry, Lines and Angles, Congruent Triangles, Quadrilateral, Circles, Herons Formula, Area of Parallelogram and Triangle, Surface area and Volume, Statistics, Probability, Constructions	Cell, Tissue, Improvement of food Resources, Biodiversity, Why do we fall ill, Natural Resources	India – Size and Location, The Story of Village Palampur, The French Revolution Physical Features of India , Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy?, People as Resource, Drainage, Constitutional Design, Nazism and The rise of Hitler, Poverty as a challenge, Electoral Politics, Climate, Forest Society and Colonialism, Natural Vegetation and Wildlife, Pastoralists in the Modern World , Working of Institutions, Food Security in India , Democratic Rights ,Peasants and Farmers –The Coming of Modern Agriculture in England, Population	NA	Logical Alphabet Number, Coding-Decoding, Number Series, Series of Letters, Missing term in figure, Mathematical Operation, Direction Sense, Sealing Arrangement, Blood Relation, Puzzle test, Venn diagram, Syllogism, Day, Date and Time Sequence, Dice test, Cube test, Mirror and Water image, Paper cutting and folding, Figure partition & counting, Nonverbal Series, Nonverbal Analogy, Nonverbal Classification
MT-2		Subjective					Major Test Dates: 10th to 18th Feb 2020		
Date of Reshuffling of Batches : 17.06.2019 30.09.2019									