

# Academic Planning & Test Grid

NTSE Pattern Part Test (NPT), NTSE Pattern Cumulative Test (NCT), School Exam Preparatory Pattern Test (SEP), Open Test (OT) Syllabus

Periodic Test Type & No.	Test Type	Physics	Chemistry	Mathematics	Biology	Social Science	English	Mental Ability
NPT-1	23.04.18 Objective	Stars Galaxies , Constellation, Basic Mathematics, Motion (upto speed and velocity)	Matter in Our Surrounding (Till Plasma and BEC)	Class IX: Number System (Only Suits and Exponents)	Cell (till Transpiration of membrane)	India - Size and Location, Democracy in the Contemporary World, The Story of Village Palampur + IX RBSE (Pol, Sci All)	Tense, Conditionals ,Determiners, Reading comprehension	Logical alphabet number, coding-decoding(letter+letter coding),letter-number coding)
NCT-1	20.05.18 Objective	Basic Mathematics, Motion (till equation of motion (graphical method))	Matter in Our Surrounding	Class IX: Number System	Cell (till golgi body)	India - Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India	NA	Logical alphabet number, coding-decoding, number series
SEP-1	01.07.18 Subjective (MCQ & Eng)	Motion, Circular Motion, Force and Laws of Motion (till 2nd law)	Matter in Our Surrounding	NA	Cell	NA	The Fun they had, The Road Not Taken, The Child, Article Writing, Story Writing	NA
NPT-2	08.07.18 Objective	Motion (From acceleration to complete) , Force and Laws of Motion (upto impulse of force)	Matter in our surrounding, Is matter Around us Pure (till Classification of colloids)	Class IX: Number System (Only Suits and Exponents), Linear equation in two variables, Polynomials, HCF and LCM of polynomials	Tissue (till plant tissue)	What is Democracy? Why Democracy? + IX RBSE (Geography All)	Subject Verb Agreement, Modifiers, Reading comprehension	Coding-decoding (phrase based coding), substitution coding, column coding, Number series, Series of letters, Missing term in figure, Mathematical operation
SEP-2	15.07.18 Subjective (MCQ & SST)	NA	NA	Class IX: Number System, Coordinate Geometry, Linear equation in two variables, Polynomials, Introduction to Euclid geometry	NA	India - Size and Location, Democracy in the Contemporary World, The Story of Village Palampur, The French Revolution, Physical Features of India, Socialism in Europe and The Russian Revolution, What is Democracy? Why Democracy?	NA	NA
NCT-2	23.07.18 Objective	Motion, Circular Motion, Force and Laws of Motion	Matter in Our Surrounding, Is matter Around us Pure (till Classification of colloids)	Class IX: Number System, Coordinate Geometry, Linear equation in two variables, Polynomials, Introduction to Euclid geometry	cell, tissue (till connective tissue)	India - Size and Location, Democracy in the Contemporary World, 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, Constitutional Design	Subject verb agreement, Reported speech, Modals, Pronoun, Adjective, Reading comprehension	Logical alphabet number, coding-decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction Sense, Starting arrangement
NPT-3	19.08.18 Objective	Internal Structure of Earth, Earthquake, Force and Laws of Motion (From Newton's 3rd law of motion), Gravitation (till variations of g with height)	Is matter Around us Pure (From Types of solutions to till physical and chemical changes)	Class IX: Introduction to Euclid geometry, Lines and angles, Congruent Triangles (except inequality) RBSE: Angle related to polygon	tissue	Drainage, People as Resource, Constitutional Design, Nazism and the rise of Hitler, Poverty as a Challenge + IX RBSE (History Q to T)	Direction sense, Seating arrangement, Blood relation	Logical alphabet number, coding-decoding, number series, Series of letters, Missing term in figure, Mathematical operation, Direction Sense, Starting arrangement, Blood relation, Puzzle test, Venn diagram
SEP-3	09.09.18 Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation (upto motion under gravity)	Matter in our surrounding, Is matter Around us Pure	Class IX: Number System, Coordinate Geometry, Linear equation in two variables, Polynomials, Introduction to Euclid geometry (Except Midpoint theorem)	cell, tissue, improvement of food resources	India - Size and Location, Democracy in the Contemporary World, 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, 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, Starting arrangement, Blood relation, Puzzle test, Venn diagram, Day, date and time sequence
SEP-4	02.12.18 Subjective (MCQ & Eng)	Force and Laws of Motion (From units of force to complete), Gravitation, Fluid, Work, Energy, Power (till some other examples of conservation of energy)	Is matter Around us Pure, Atoms & Molecules (till Mole concept)	NA	Biodiversity (From taxonomy to nematoda)	NA	My childhood, No men are foreign, Packing, The last leaf, The duck and the kangaroo, Article writing, story writing	NA
OT-1	13.01.19 Objective	Motion, Circular Motion, Force and Laws of Motion, Gravitation	NA	Class IX: Lines and Angles, Congruent triangle, Quadrilateral, Circles, Herons formula	NA	Constitutional Design, Drainage, Nazism and the rise of Hitler, Poverty as a challenge, Electoral Politics, Climate, Forest Society and Colonialism, Natural Vegetation and Wildlife, Working of the institutions, Food Security	NA	NA
OT-2	27.01.19 Objective	Fluid, Work, Energy, power, Wave Motion and Sound	Atoms and molecules, Structure of Atom	Class IX: Number System, Coordinate Geometry, Linear equation in two variables, Polynomials, Introduction to Euclid geometry, Lines and Angles, Congruent triangle, Quadrilateral, Circles	cell, tissue, improvement of food resources	India - Size and Location, Democracy in the Contemporary World, 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, Constitutional Design, Nazism and the rise of Hitler, Etalon Politics Climate, Forest Society and Colonialism, Natural Vegetation and Wildlife, Pastoralists in the modern world, Working of Institutions, Food Security, Higher Secondary Education - The Coming of Modern Agriculture in England and Population	NA	Logical alphabet number, coding-decoding, Missing term in figure, Mathematical operation, Direction sense, Seating arrangement, Blood relation, Puzzle test, Venn diagram, Day, date and time sequence, Paper coding and folding, Figure partition & analogy, Non-verbal classification (Visual discrimination, Visual Analogy, Visual Spatial Reasoning, Visual Pattern Recognition, Visual Logic, Visual Mathematics)
NCT-5	03.02.19 Objective	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus	NA	Full Syllabus

## Major Test Dates: 10<sup>th</sup> to 30<sup>th</sup> September 2018 - Syllabus (Term -1)

Test Type	Subjective	Objective
MT-1	21.10.18 Objective	21.10.18 Objective
NCT-4	18.11.18 Objective	18.11.18 Objective
SEP-3	02.12.18 Subjective (MCQ & Eng)	02.12.18 Subjective (MCQ & Eng)
SEP-4	16.12.18 Subjective (MCQ & SST)	16.12.18 Subjective (MCQ & SST)
OT-1	13.01.19 Objective	13.01.19 Objective
OT-2	27.01.19 Objective	27.01.19 Objective
NCT-5	03.02.19 Objective	03.02.19 Objective

Test Type	Subjective	Objective
MT-2	25.06.2018	01.10.2018

Date of Reshuffling of Batches: 25.06.2018 | 01.10.2018



Pre-foundation Career Care Programmes (PCCP) Division

# COURSE PLANNER

## For Students of CLASS-IX

**REGULAR PROGRAM | Academic Session: 2018-2019**



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.

**Course Commencement: 05-04-2018 | Course Ends: 16.02.2019**

### 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 2018-19. 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: 424
- Duration of one lecture: 55 minutes
- Total Duration of Classroom Teaching: 388 hrs
- Total Duration of Testing: 76 hrs
- Total Academic Hours: 464 hrs

### HOLIDAYS / VACATIONS

- Resonance Foundation Day: 11<sup>th</sup> April 2017 | 2. Summer Break: 4<sup>th</sup> to 16<sup>th</sup> June 2018 |
- Independence Day: 15<sup>th</sup> August, 2018 | 4. Raksha Bandhan: 26<sup>th</sup> August, 2018 | 5. Anant Chaturdashi: 23<sup>rd</sup> September, 2018 | 6. Dussehra: 19<sup>th</sup> October, 2018 | 7. Deepawali Holidays: 04<sup>th</sup> to 11<sup>th</sup> November, 2018 | 8. Winter Break: 23<sup>rd</sup> to 31<sup>st</sup> December, 2018 | 9. Makar Sankranti: 14<sup>th</sup> January 2019 | 10. Republic Day: 26<sup>th</sup> January, 2019: (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: 26<sup>th</sup> May, 2018 | 01<sup>st</sup> September, 2018 | 01<sup>st</sup> December, 2018 | 02<sup>nd</sup> February, 2019

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# 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	10
5.	Introduction to euclid geometry	3
6.	Lines and angles	8
7.	Congruent triangle	10
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	4
<b>Total</b>		<b>98</b>

## CHEMISTRY

S.No.	Topic Name	No. of Classes
1.	Matter in our surrounding	11
2.	Is matter Around us Pure	14
3.	Atoms & Molecules	13
4.	Structure of Atom	8
<b>Total</b>		<b>46</b>

## PHYSICS

S.No.	Topic Name	No. of Classes
1.	Motion	11
2.	Circular Motion	3
3.	Force & Laws of Motion	10
4.	Gravitation	11
5.	Fluid	6
6.	Work, Energy, Power	10
7.	Wave, Motion & Sound	11
<b>Total</b>		<b>62</b>

## BIOLOGY

S.No.	Topic Name	No. of Classes
1.	Cell	13
2.	Tissue	11
3.	Improvement of food resources	11
4.	Biodiversity	17
5.	Why do we fall ill	6
6.	Natural resources	4
<b>Total</b>		<b>62</b>

## 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	2
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	1
23.	Novel (Term-1)	2
24.	My childhood, No men are foreign	2
25.	Active and Passive voice	2
26.	Packing	2
27.	Prepositions	2
28.	Weathering the storm in Ersama	2
29.	The last leaf	2
30.	The duck and the kangaroo	1
31.	Reach for the top	2
32.	Connectors	1
33.	A house is not a home	2
34.	On killing a tree	1
35.	The bond of love, Clauses	2
36.	The snake trying, Kathmandu A slumber did my spirit seal	2
37.	The accidental tourist	2
38.	If I were You	2
39.	The beggar	2
40.	Novel (Term-2)	2
<b>Total</b>		<b>64</b>

## SOCIAL SCIENCE

S.No.	Topic Name	No. of Classes
1.	India – Size and Location	2
2.	Democracy in the Contemporary World	2
3.	The Story of Village Palampur	2
4.	The French Revolution	4
5.	Physical Features of India	4
6.	Socialism in Europe and The Russian Revolution	3
7.	What is Democracy ? Why Democracy?	3
8.	People as Resource	2
9.	Constitutional Design	3
10.	Drainage	3
11.	Nazism and The rise of Hitler	3
12.	Poverty as a Challenge	2
13.	Electoral Politics	3
14.	Climate	4
15.	Forest Society and Colonialism	3
16.	Natural Vegetation and Wildlife	2
17.	Pastoralists in the Modern World	2
18.	Working of Institutions	2
19.	Food Security in India	2
20.	Democratic Rights	3
21.	"Peasants and Farmers –The Coming of Modern Agriculture in England"	2
22.	Population	2
23.	Clothing:A Social history	3
<b>Total</b>		<b>61</b>

## 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 test	2
11.	Venn diagram	1
12.	Sylogism	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
<b>Total</b>		<b>31</b>

## School Examination Preparatory (SEP) Sheet: Schedule

S.No.	Solve Date	Check Date	Test Syllabus					
			Physics	Chemistry	Mathematics	Biology	English	Social Science
1	2/4 to 5/5	7/5 to 12/5			Number System		Tense,Conditionals,Determiners Subject Verb Agreement	India – Size and Location + The Story of Village Palampur
2	30/4 to 05/5	2/7 to 7/7	Motion	Matter in our Surroundings	Coordinate geometry	Cell	The Fun they had,The Road Not Taken, The Lost child,The sound of music	Democracy in the Contemporary World + The French Revolution + Socialism in Europe & The Russian Revolution
3	7/5 to 19/5	28/5 to 2/6	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	21/5 to 30/6	2/7 to 7/7	Force and Laws of Motion		Polynomial		Iswaran the story teller,Rain on the roof The little girl	People as Resource+Drainage
5	02/7 to 7/7	30/7 to 4/8		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	09/7 to 28/7	1/10 to 6/10	Gravitation		Lines and angles		In the kingdom of fools The lake Isle of Innisfree	
7	30/7 to 18/8	29/10 to 3/11	Fluid		Congruent triangle		The snake and the mirror, A legend of the northland, The happy prince	Poverty as a Challenge
8	20/8 to 8/8	01/10 to 06/10			Quadrilaterals		Novel (Term-1) My childhood, No men are foreign	Electoral Politics
9	01/10 to 3/11	29/10 to 3/11			Circles		Active and Passive voice Packing	Climate + Natural Vegetation & Wildlife
10	29/10 to 3/11	31/12 to 5/01	Work Energy Power	Atoms and Molecules	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	5/11 to 24/11	26/11 to 1/12			Area of parallelograms and triangles	Why do we fall ill ?	The last leaf,The duck and the kangaroo Reach for the top	Working of Institutions + Democratic Rights
12	26/11 to 22/12	31/12 to 5/1			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	31/12 to 19/1	28/1 to 2/2			Statistics		A house is not a home On killing a tree,The bond of love, Clauses	
14	21/1 to 26/1	28/1 to 2/2	Wave, Motion & Sound	Structure of Atom	Probability	Natural Resources	The snake trying, Kathmandu A slumber did my spirit seal	Clothes and A social Culture
15	28/1 to 2/2	28/1 to 2/2			Constructions		The accidental tourist.If I were You The beggar, Novel (Term-2)	