

COURSE PLANNER

CLASS

10

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: 01.04.2019 | 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 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 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:** 592
- ♦ **Duration of one lecture:** 55 minutes
- ♦ **Total Duration of Classroom Teaching:** 542 hrs
- ♦ **Total Duration of Testing:** 130 hrs
- ♦ **Total Academic Hours:** 672 hrs

HOLIDAYS / VACATIONS

1. **Resonance Foundation Day:** 11th April 2019 | 2. **Summer Break:** 3rd to 16th June 2019 | 3. **Independence Day:** 15th August, 2019 | 4. **Raksha Bandhan:** 15th August, 2019 | 5. **Anant Chaturdashi:** 12th September, 2019 | 6. **Dussehra:** 8th October, 2019 | 7. **Deepawali Holidays:** 24th to 30th October, 2019 | 8. **Winter Break:** 23rd to 31st December, 2019 | 9. **Makar Sankranti:** 14th January 2020 | 10. **Republic Day:** 26th January, 2020: (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: 25th May, 2019 | 07th September, 2019 | 07th December, 2019 | 01st February, 2020

CALL: 0744-6635569, 0744-277769 | SMS: RESO PCCP at 56677

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SUBJECT WISE SYLLABUS PLAN

MATHEMATICS

S.No.	Topic Name	No. of Classes
1.	Real Number	8
2.	Polynomial	9
3.	Linear equation in two variables	8
4.	Quadratic equations	6
5.	Similar triangle	11
6.	Circles	4
7.	Trigonometry	8
8.	Heights and distances	3
9.	Area related to circles	4
10.	Surface area and volume	8
11.	Statistics	7
12.	Probability	3
13.	Coordinate geometry	8
14.	Arithmetic Progression	5
15.	Constructions	5
16.	Revision	22
Total		121

CHEMISTRY

S.No.	Topic Name	No. of Classes
1.	Chemical reaction and equation	8
2.	Periodic classification of elements	6
3.	Acids, Bases and salts	10
4.	Metals and Nonmetals	10
5.	Carbon and its compounds	19
6.	Revision	21
Total		74

ENGLISH

S.No.	Topic Name	No. of Classes
1	Tense	3
2	Conditionals	1
3	A Letter to God ,Nelson Mandela	2
4	Dust of snow, Fire and Ice	1
5	A tiger in the zoo,Two stories about flying (First Flight)	1
6	Subject Verb agreement	3
7	Two stories about flying (The Black Aeroplane)	1
8	Reported Speech	3
9	How to tell wild animals,The ball poem	1
10	Determiners	2
11	From the diary of Anne Frank , Amanda	1
12	The Hundred Dresses Part 1 and 2	2
13	Modals	3
14	Animals,Glimpses of India	2
15	Mijbil - The Otter,The Trees, Fog, Madam rides the bus	2
16	Writing section	1
17	Madam rides the bus,The Tale of Custard Dragon	2
18	Active and passive voice	2
19	The Sermon at Benares, For Anne Gregory	2
20	The Proposal	3
21	Prepositions	3
22	A Triumph of Surgery	2
23	The Thief's Story	2
24	Connectors	2
25	The Midnight visitor	2
26	A Question of Trust	2
27	Footprints without feet,The making of scientist	3
28	Clauses	1
29	The Necklace,The hack driver, Bholi	4
30	The book that saved the earth	2
Total		61

BIOLOGY

S.No.	Topic Name	No. of Classes
1.	Nutrition	10
2.	Respiration	7
3.	Transportation	6
4.	Excretion	5
5.	Control and coordination	12
6.	How Do Organisms Reproduce	11
7.	Heredity and Evolution	11
8.	Our Environment	2
9.	Management Of Natural Resources	1
10.	Revision	20
Total		85

SOCIAL SCIENCE		
S.No.	Topic Name	No. of Classes
1	Power Sharing	2
2	Resources and Development	2
3	The Rise of Nationalism in Europe	4
4	Development	2
5	Federalism	2
6	Sectors of Indian Economy	3
7	Nationalist Movement in Indo China	3
8	Forest & Wild Life Resources	2
9	Nationalism in India	4
10	Water Resources	2
11	Democracy & Diversity	4
12	The Making of a Global World	3
13	Gender Religion and caste	2
14	Agriculture	2
15	The Age of Industrialisation	3
16	Work, life and leisure : Cities in The Contemporary World	3
17	Minerals & Energy Resources	2
18	Money & Credit	2
19	Popular Struggles and Movements	2
20	Globalisation and the Indian Economy	2
21	Print Culture and the Modern World	2
22	Consumer Rights	2
23	Manufacturing Industries	2
24	Lifelines of the National Economy	2
25	Political Parties	2
26	Novel Society & History	2
27	Outcomes of Democracy	2
28	Challenges to Democracy	1
29	(State Board) Syllabus	23
30	Revision	34
Total		123

MENTAL ABILITY		
S.No.	Topic Name	No. of Classes
1	Alphabet test	2
2	coding-decoding	2
3	"Number series"	2
4	alphabet series	1
5	Letter repeating series	1
6	Missing term in figure	2
7	"Mathematical operations,Direction sense test"	2
8	"Sitting arrangement,Ranking & ordering"	2
9	Blood relation	1
10	Puzzle test	2
11	Venn diagram,Syllogism	3
12	Analogy,Classification	2
13	Pyramid test	1
14	Calendar test	2
15	Dice test,Cube test	2
16	clock test	2
17	"Figure partition & counting,Mirror image & Water image, Paper cutting	2
18	& folding,Completion & formation of figure,Figure embedded" Nonverbal series	1
19	Nonverbal analogy,Nonverbal classification	1
20	Logical sequence of words, Vedic maths	1
21	Revision	18
Total		53

PHYSICS		
S.No.	Topic Name	No. of Classes
1	Electricity	15
2	Magnetism	11
3	Source of Energy	8
4	Light	21
5	Revision	20
Total		75

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 13/4	13/5 to 18/5			Real Number	Nutrition	Tense , Conditionals	Power Sharing, Resources and Development
2	15/4 to 27/4	03/6 to 08/6		Chemical Reactions and Equations	Polynomial	Respiration	A Letter to God, Nelson Mandela, Dust of snow, Fire and Ice	The Rise of Nationalism in Europe, Development, Federalism
3	29/4 to 17/5	13/5 to 18/5	Electricity		Linear equation in two variables	Transportation	A tiger in the zoo,Two stories about flying (First Flight),Subject: Verb agreement	Sectors of Indian Economy, Nationalist Movement in Indo China
4	13/5 to 18/5	03/6 to 8/06		Periodic Classification of elements	Quadratic equations	Excretion	Two stories about flying (The Black Aeroplane), Reported Speechs	Forest & Wild Life Resources, Nationalism in India
5	20/5 to 08/6	08/7 to 13/7	Magnetism	Acids, Bases and Salts	Similar triangle	Control and Co-ordination	How to tell wild animals,The ball poem, Determiners	Water Resources, Democracy & Diversity
6	24/6 to 29/6	22/7 to 27/7			Circles		Determiners From the diary of Anne Frank , Amanda, The Hundred Dresses Part. 1 and 2	The Making of a Global World, Gender Religion and caste
7	1/7 to 06/7	08/7 to 13/7		Metals & Nonmetals	Trigonometry	How Do Organisms Reproduce	Models: Animals, Glimpses of India Mjbi - The Otter;The Trees, Fog, Madam rides the bus	Agriculture, The Age of Industrialisation
8	08/7 to 13/7	22/7 to 27/7	Sources of Energy		Heights and distances		Writing section, Madam rides the bus, The Tale of Custard Dragon	Work, life and leisure: Cities in The Contemporary World
9	15/7 to 20/7	19/8 to 24/8			Area related to circles		Active and passive voice, The Sermon at Benares, For Anne Gregory	Minerals & Energy Resources, Money & Credit
10	22/7 to 3/8	30/9 to 5/10		Carbon and Its compounds	Surface area and volume		The Proposal, Prepositions, A Triumph of Surgery	Popular Struggles and Movements Globalisation and the Indian Economy
11	5/8 to 17/8	19/8 to 24/8			Statistics		The Thief's Story, Connectors, The Midnight visitor	Print Culture and the Modern World Consumer Rights, Manufacturing Industries
12	12/8 to 17/8	30/9 to 5/10			Probability	Heredity and Evolution	A Question of Trust, Footprints without feet,The making of scientist	Lifelines of the National Economy
13	19/8 to 31/8	19/11 to 30/11	Light		Coordinate geometry	Our Environment	Clauses	Political Parties, Novel Society & History
14	02/9 to 07/9	30/9 to 5/10			Arithmetic Progression	Management of Natural Resources	The Necklace,The hack driver, Bholi	Outcomes of Democracy
15	11/11 to 23/11	25/11 to 30/11			Constructions		The book that saved the earth	Challenges to Democracy

Academic Planning & Test Grid

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)	21.04.19	Objective	Class-X Structure of Earth (RBSE) & Electricity (all Unit of electric charge)	Chemical Reaction and Equations (up to Endothermic and Exothermic) Class IX: Matter-1, Structure of Atom, (all Atomic Models) Class X: Chemical Reaction and Equations	Class X: Real Number, Number System, Polynomials	Class X: Nutrition (all digestive system) Class IX: Cell, Tissue Class X RBSE : Immunity & Blood Group	Power Sharing, Resources and Development, The rise of Nationalism in Europe - Development + IX (Geography All) + X RBSE (Economics All, History Ch 1,2)	NA	Alphabet test, Coding-Decoding (Letter-Hletter coding, Letter-Number coding)
NCT-1 (4 Hr)	12.05.19	Objective	Class-X: Motion, Force and Law of Motion Class-X: Electricity (combination of resistances)	Class IX: - Matter-1, Structure of Atom, (all Atomic Models) Class X: Chemical Reaction and Equations	Class X: Real Number, Polynomial, Introduction to Euclid Geometry, Lines and Angles	Class X: Nutrition, Respiration	Power Sharing, Resources and Development, The rise of Nationalism in Europe - Development, Federalism, Sectors of Indian Economy, Nationalist Movement in Indo-China, Forest & Wildlife Resources, Nationalism in India	NA	Alphabet test, Coding-Decoding, Number Series, Letter Repeating Series, Letter Repeating Series
NPT-2 (4 Hr)	02.06.19	Objective	Class-X: Our Universe (RBSE) Electricity (from Electric field to Miniature Circuit Breaker), Magnetic effect of electric current (up to Electromagnet)	Class IX: - Matter-2, Structure of atom (all atomic models) Class X: - Acids, Bases and Salts Classification of Metals and Nonmetals	Class IX: Polynomials, Linear equation in two Variable, Coordinate Geometry, Linear Equation in two Variable	Class X: Diversity, Improvement in food Resources Class X RBSE: Economic Importance of Plants and Animals	Water Resources, Democracy and Diversity, The Making of a Global World + IX Class (History All)- X RBSE (Pol Sci, All- History Ch 3,4)	NA	Coding-Decoding, Number Series, Alphabet Series, Letter Repeating Series, Missing term in figure, Mathematical operations, Direction Sense test, Sitting Arrangement, Ranking & ordering
SEP-1 (3 Hr)	30.06.19	Subjective (Maths & SST)	NA	NA	Class X: Real Number, Polynomial, Linear Equation in two Variable, Quadratic Equation	NA	Power Sharing, Resources and Development, The rise of Nationalism in Europe - Development, Federalism, Sectors of Indian Economy, Nationalist movement in Indo-China, Forest & Wildlife Resources, Nationalism in India, Water, Democracy and diversity, Agriculture	NA	NA
SEP-2 (3 Hr)	14.07.19	Subjective (Sc. & Eng)	Class-X: Electricity-Magnetic effect of electric current, Source of energy (up to Sea waves energy)	Chemical Reaction and Equations, Periodic Classification of Elements, Acids Bases and Salts	NA	Nutrition, Respiration, Coordination	NA	Time, Conditionals, Two Gentlemen of Verona, Frog and the Nightingale, Subject Verb agreement, Miss Prokhorova's experiment, Miss Prokhorova's marble nor the gilded monuments	NA
NCT-2 (4 Hr)	28.07.19	Objective	Class IX: Gravitation and fluid Class-X: Electricity, Magnetic effect of electric current, Source of energy, Light (up to Optics and Nature of light, properties of light, Source of light, Medium of light)	Class IX : - Matter-2, Structure of atom (all atomic models) Class X: - Acids, Bases and Salts Classification of Metals and Nonmetals	Class X: Real Number, Polynomial, Linear Equation in two Variable, Quadratic Equation, Similar Triangle, Circle, trigonometry, Height and Distance, Area Related to Circles.	Class X: Nutrition, Respiration, Coordination, How do organisms Reproduce (all plants)	Class X: Industrialisation, Work, Life and leisure, Mineral and Energy Resources, Money and Credit, Globalisation and The Indian Economy, Print Culture and the Modern world, Consumer Rights, Manufacturing Industries, Lifelines of the National Economy, Political Parties, Novel Society & History	NA	Alphabet test, Coding-Decoding, Number Series, Alphabet Series, Letter Repeating Series, Missing term in figure, Mathematical Operations, Ranking & ordering, Blood relation, Puzzle test, Venn diagram, Syllogism, Analogy, Classification, Pyramid test, Calendar test, Dice test, Cube test, Clock test
NPT-3 (4 Hr)	18.08.19	Objective	Class-IX: Gravitation & Fluid Class-X: Magnetic effect of electric current (from Force on a current-carrying conductor in a magnetic field to Generator & Motor), Source of energy, Light (Reflection complete)	Class X: - Acid Base and Salts (From Salts), Metals and Nonmetals, Carbon and its Compounds (up to basic IUPAC nomenclature)	Class IX: Lines and Angles, Congruent Triangle, Quadrilaterals, Circles (all internal and external), Angle Related to Polygon, Road Safety	Class X: Nutrition, Respiration, Transportation, Excretion, Control & Coordination, How do organisms Reproduce, Heredity and Evolution (all neodarwinism)	Class X: Consumer Rights, Manufacturing Industries, Lifelines of the National Economy, Political Parties, Novel Society & History + IX Class (Economics and Pol. Science All) + X RBSE (Geography all)	NA	Blood Relation, Puzzle test, Venn diagram, Syllogism, Analogy, Classification, Pyramid test, Calendar test, Dice test, Cube test, Clock test
NCT-3 (4 Hr)	08.09.19	Objective	Class-IX: Work Energy & Power, Wave Motion and Sound Class-X: Electricity, Magnetic Effect of Electric Current, Source of Energy, Light	Class IX: - Matter 1 & 2, Atoms and Molecules, Structure of Atom Class X: - Chemical Reaction and Equation, Acid Base and Salts, Metals and Nonmetals, Carbon and its Compounds, Periodic Classification of Elements	Class X: Real Number, Polynomial, Linear Equation in two Variable, Quadratic Equation, Similar Triangle, Circle, Surface area and Volume, Trigonometry, Height and Distance, Area and Volume	Class X: Nutrition, Respiration, Coordination, How do organisms Reproduce, Heredity and Evolution, Our Environment	Power Sharing, Resources and Development, The age of Industrialisation, Development, Federalism, Sectors of Indian Economy, The Making of a Global World, Forest & Wildlife Resources, Work life and Leisure, Water, Democracy and Diversity, Print Culture and the Modern world, Novel Society & History, Agriculture, The Rise of Nationalism in Indo China, Money & Credit, Popular Struggles and Movements, Consumer Rights, Manufacturing Industries, Lifelines of the National Economy, Political Parties, Nationalist Movement in Indo China, Outcomes of Democracy Challenges to Democracy	NA	Alphabet test, Coding-Decoding, Number Series, Alphabet Series, Letter Repeating Series, Missing term in figure, Mathematical Operations, Direction Sense test, Sitting Arrangement, Ranking & ordering, Blood relation, Puzzle test, Venn diagram, Syllogism, Analogy, Classification, Pyramid test, Calendar test, Dice test, Cube test, Clock test, Paper cutting & folding, Completion & formalon of figure, Figure embedded
FT-1 (4 Hr)	06.10.19	Subjective			Full Syllabus			NA	Full Syllabus
FT-2 (4 Hr)	13.10.19	Objective			Full Syllabus			NA	Full Syllabus
FT-3 (4 Hr)	20.10.19	Objective			Full Syllabus			NA	Full Syllabus
FT-4 (4 Hr)	31.10.19	Objective			Full Syllabus			NA	Full Syllabus
SEP-3 (3 Hr)	17.11.19	Subjective (Maths & SST)	NA	NA	Trigonometry, Height and Distances, Area Related to Circles, Surface area and Volume	NA	Power Sharing Resources and Development, The Rise of Nationalism in Europe OR Nationalist Movement in Indo China - Development, Federalism, Sectors of Indian Economy, Nationalism in India, Work life and Leisure, Water, Democracy and diversity, Agriculture.	NA	NA
SEP-4 (3 Hr)	01.12.19	Subjective (Sc. & Eng)	Electricity, Magnetic Effect of Electric Current	Periodic Classification of Elements, Acids Bases and Salts, Metals and Nonmetals	NA	How do organisms Reproduce, Heredity and Evolution, Our Environment, Management Of Natural Resources	NA	Active Passive Voice, Compound Tenses, Direct and Indirect Speech, Project Proposals, The rise of the ancient mariner, Writing section (Letter Writing, Story Writing, Article Writing)	NA
SEP-5 (3 Hr)	15.12.19	Subjective (Maths & SST)	NA	NA	Statistics, Probability, Coordinate Geometry, Arithmetic progression	NA	Money & Credit, Popular Struggles and Movements, Globalisation and the Indian Economy, The age of Industrialisation OR Novel Society, Manufacturing Industries, Lifelines of the National Economy, Political Parties, Print Culture and the Modern world OR Novel Society & History, Outcomes of Democracy, Challenges to Democracy	NA	NA
SEP-6 (3 Hr)	22.12.19	Subjective (Sc. & Eng)	Source of Energy, Light	Chemical Reaction and Equation, Metals and Nonmetals, Carbon and its Compounds	NA	Control and Coordination, How Do Organisms Reproduce, Heredity and Evolution	NA	Writing Section (Letter Writing, Story Writing, Article Writing), The Ship at the Port Of the Ancient Mariner, The Dear departed, Patel babu, Connectors, Virtually true	NA
Pre Board-1		Subjective							
Pre Board-2		Subjective							

Pre Board-1, 7th Jan to 31st Feb-2020
Pre Board-2, 6th Feb to 15th Feb-2020

Date of Reshuffling of Batches : 17.06.2019 | 30.08.2019