

Rajasthan NTSE - 2019

A Detailed Analysis by Nucleus Education

NTSE 2019: The National Talent Search Examination (NTSE) is a national level examination cum scholarship program. The scholarship program is conducted by NCERT on 4th November 2018 and the students who are studying in class X are eligible for **NTSE 2019** examination and selection procedure.

Eligibility: As per the eligibility criteria of NTSE 2019, all the students who are studying in X standard are eligible to apply for this scholarship program. A student from any state of the country can register for this examination and scholarship scheme. Whether a student is from a government or a private school, he/she is eligible.

Pattern/ Syllabus: The National Talent Search Examination is conducted for the students studying in the Class X. The examination consists of two tests:

1. Mental Ability Test (MAT)
2. Scholastic Aptitude Test (SAT)

NTSE Mental Ability Test (MAT) Syllabus

This test is given to judge the power of reasoning, to evaluate and discriminate the ability of thinking, judging and visualizing etc. A variety of questions, for example - analogies, classification, series, pattern perception, hidden figures, coding decoding, block assembly, problem solving, etc. are used for this purpose.

NTSE Scholastic Aptitude Test (SAT) Syllabus (Science, Mathematics & Social Science)

This section is conducted to judge that how much of text-book knowledge you have gained. As India doesn't has any single unified board system, NCERT has not prescribed any particular syllabus for the State Level Examination or for National Level Examination.

You can expect questions that are asked at the National Level (Stage-I) according to the standard of Classes IX and X level.

Question Paper: The medium of test is English and regional languages and it comprised of 200 question. The students have to select and mark one right answer from the given options. Each right answer carries one point each, thus making the total score of the candidate in a test is equal to the number of questions answered correctly. There is no negative mark for incorrect answers.

Merit Clause: All the students who achieve requisite scores at this level automatically qualify for scholarships that are handed over by NCERT.

OVERALL MARKS DISTRIBUTION

The **NTSE 2019 Exam Pattern** was an objective type test based on paper-pen format.

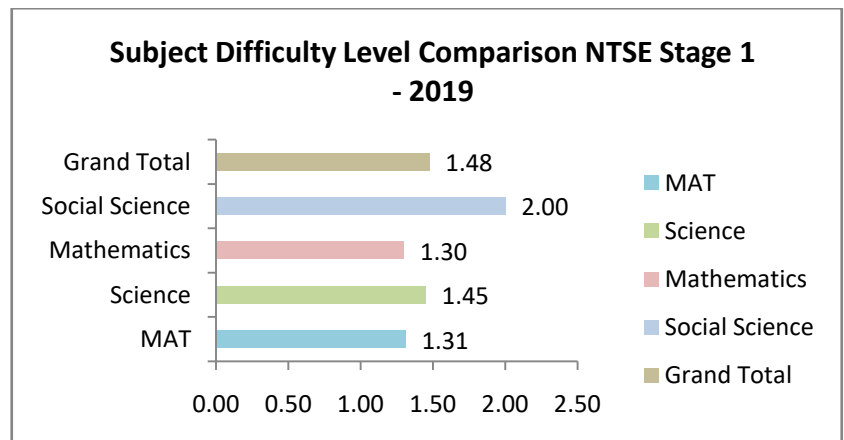
Test	No. Of Questions	Maximum Marks	Time Allotted
Mental Ability Test	100 Questions	100 Marks	120 minutes
Scholastic Aptitude Test	100 Questions	100 Marks	120 minutes

OVERALL DIFFICULTY LEVEL ANALYSIS

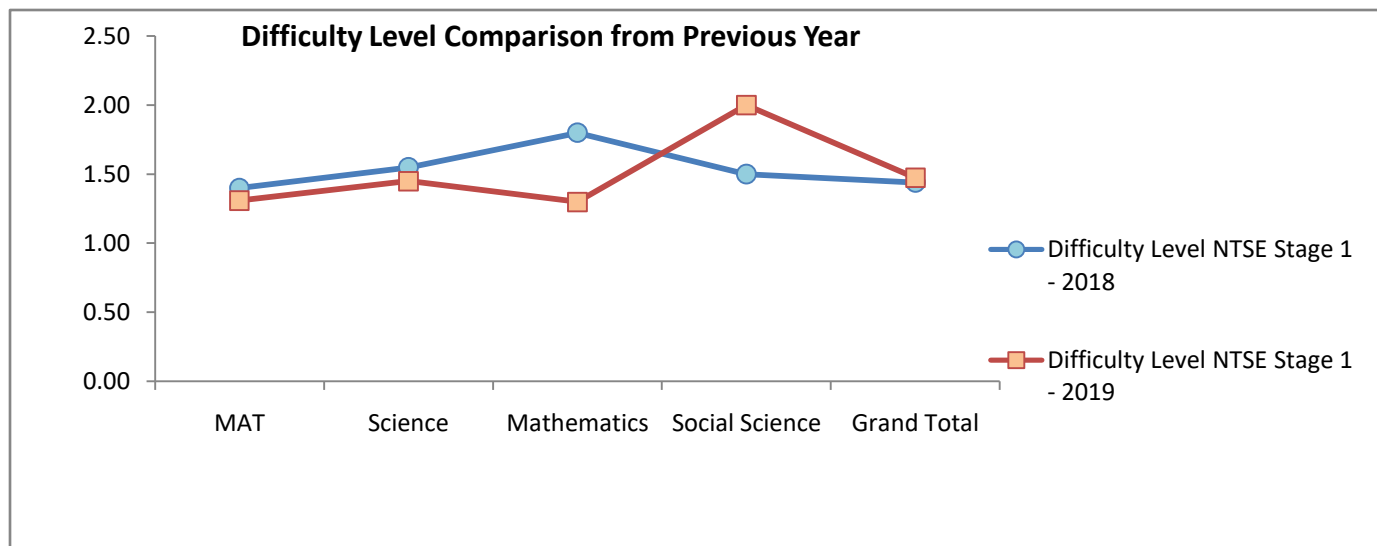
In this analysis, we have rated every question on a scale of 1 to 3. The ratings are done by expert faculty of Nucleus Education. The individual ratings are averaged to calculate overall difficulty level.

- 1: Easy
- 2: Moderate
- 3: Difficult

Subject	Difficulty Level
MAT	1.31
Science	1.45
Mathematics	1.30
Social Science	2.00
Grand Total	1.48



DIFFICULTY LEVEL COMPARISON FROM PREVIOUS YEAR



Difficulty Level Analysis: No of Questions

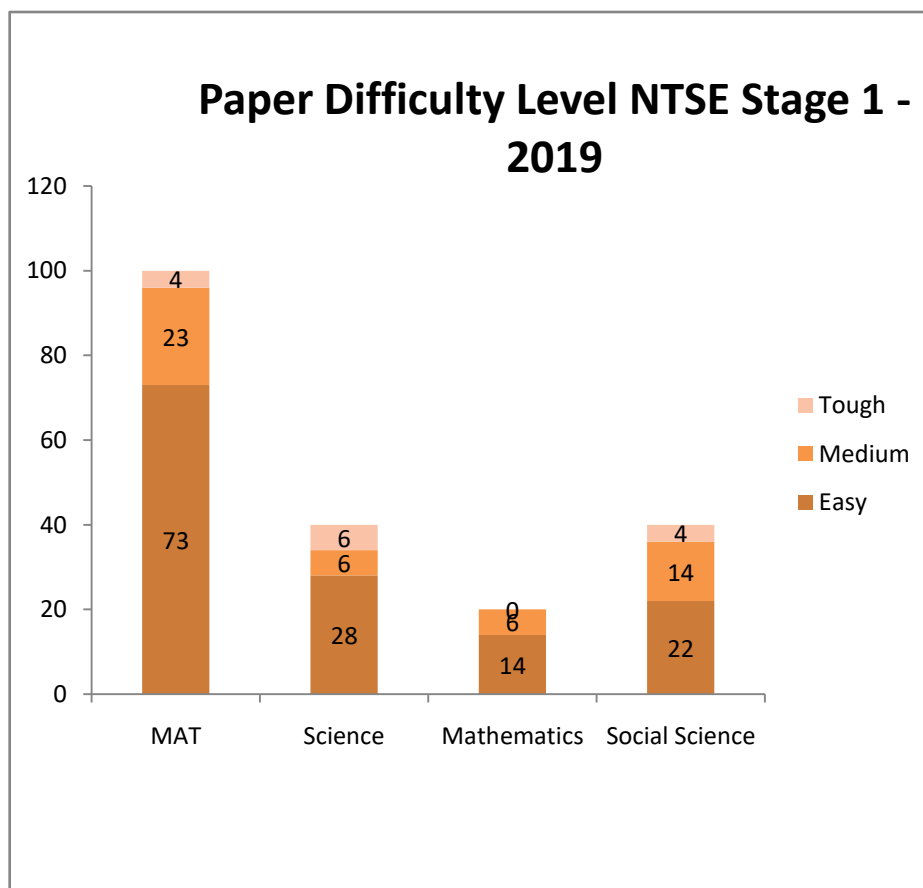
Subject	Class IX		Class X		Total	
	No. of Questions	Total Marks	No. of Questions	Total Marks	No. of Questions	Total Marks
MENTAL ABILITY	0	0	100	100	100	100
SCIENCE	19	19	21	21	40	40
Physics	7	7	6	6	13	13
Chemistry	6	6	7	7	13	13
Biology	6	6	8	8	14	14
MATHEMATICS	8	8	12	12	20	20
SOCIAL SCIENCE	26	26	14	14	40	40
Grand Total	53	53	147	147	200	200

Following points were observed by expert analysts of Nucleus Education:

- **Mental Ability:** The paper of mental ability was easier than last year because of increased time and decreased complexity.
- **Mathematics:** The paper was very straight forward and all the questions could be done very easily.
- **Physics:** Only one question came from RBSE syllabus which can be considered difficult. Rest of the paper was easy.
- **Chemistry:** Three questions came from RBSE out of which two were considered difficult. Overall paper was considered to be difficult than last year.
- **Biology:** Paper was very tough as compared to last year. Four questions out of 14 were tricky.
- **Social Science:** Paper was very difficult as more than half of the paper was from RBSE syllabus.

Overall the paper was considered to be tough as compared to last year largely attributed to Social Science. In this context, cut off is expected to decrease in percentage terms from last year.

Question Wise Difficulty Breakup



SUBJECT WISE ANALYSIS
MENTAL ABILITY ANALYSIS

Mental Ability			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Mental Ability	100	100	100%
Verbal Reasoning	61	61	61%
Venn Diagram	12	12	12%
Alphabet Series	8	8	8%
Number Series	8	8	8%
Blood Relation	5	5	5%
Coding-Decoding	4	4	4%
Mathematical Operations	4	4	4%
Arithmetical Reasoning	3	3	3%
Calendar Test	3	3	3%
Ranking & Ordering- Test	3	3	3%
Syllogism	3	3	3%
Cube Test	2	2	2%
Dice Test	2	2	2%
Direction Sense Test	2	2	2%
Logical Sequence of words	2	2	2%
Non Verbal Reasoning	39	39	39%
Non-Verbal Series	8	8	8%
Odd One Out	7	7	7%
Embedded Figure	4	4	4%
Mirror Image	4	4	4%
Paper cutting and folding	4	4	4%
Water Image	4	4	4%
Classification	3	3	3%
Figure Completion	3	3	3%
Figure Partition & counting	2	2	2%

SCIENCE ANALYSIS

Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Science	100	100	100%
Physics	13	13	32.5%
Electricity	3	3	7.5%
Gravitation	2	2	5.0%
Light	2	2	5.0%
Sound	2	2	5.0%
Force and Laws of Motion	1	1	2.5%
Magnetism	1	1	2.5%
Motion	1	1	2.5%
Work Power & Energy	1	1	2.5%
Chemistry	13	13	32.5%
Acid Base & Salt	3	3	7.5%
Atoms & Molecules	2	2	5.0%
Matters In Our Surrounding	2	2	5.0%
Carbon	1	1	2.5%
Catalyst	1	1	2.5%
Chemical Bond	1	1	2.5%
Periodic Table	1	1	2.5%
Polymers	1	1	2.5%
Structure of Atom	1	1	2.5%
Biology	14	14	35.0%
Reproduction	3	3	7.5%
Why Do we fall ill	2	2	5.0%
Animal Tissue	1	1	2.5%
Biodiversity	1	1	2.5%
Cell	1	1	2.5%
Crop Improvement	1	1	2.5%
Diversity	1	1	2.5%
Earth & Universe	1	1	2.5%
Importance of Plant & Animal	1	1	2.5%
Our Environment	1	1	2.5%
Transportation	1	1	2.5%

MATHEMATICS ANALYSIS

Mathematics			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
Mathematics	20	20	100%
Mensuration	3	3	15%
Cube	1	1	5%
Diagonal of Rhombus	1	1	5%
Unit Conversion	1	1	5%
Linear Equation	2	2	10%
Condition of Solvability	1	1	5%
Word Problem	1	1	5%
Number System	2	2	10%
Irrationality	1	1	5%
Multiplication of Prime Numbers	1	1	5%
Polynomial	2	2	10%
Algebraic identity	2	2	10%
Trigonometry	2	2	10%
Height & Distance	1	1	5%
Ratios	1	1	5%
Area Related to Circle	1	1	5%
Area of Segment	1	1	5%
Arithmetic Progression	1	1	5%
General Term Formula	1	1	5%
Coordinate Geometry	1	1	5%
Mapping	1	1	5%
Lines & Angles	1	1	5%
Angle made by Transversal	1	1	5%
Lines & Angles & Triangles	1	1	5%
Theorem	1	1	5%
Probability	1	1	5%
Dice	1	1	5%
Quadratic Equation	1	1	5%
Nature of Roots	1	1	5%
Quadrilateral	1	1	5%
Inequalities	1	1	5%
Statistics	1	1	5%
Mean	1	1	5%

SOCIAL SCIENCE ANALYSIS

Social Science			
UNIT & TOPIC NAME	NO OF QUESTIONS	TOTAL MARKS	(%) WEIGHTAGE
SSC	40	40	100%
Geography	11	11	28%
Minerals & Energy Resources	2	2	5%
Rivers & Lakes of India	2	2	5%
Climate	1	1	3%
Drainage	1	1	3%
Human Resources	1	1	3%
Natural Vegetation In India	1	1	3%
Physical Features of India	1	1	3%
Physical Features of Rajasthan	1	1	3%
Transport & Communication	1	1	3%
History	11	11	28%
Nationalism In India	3	3	8%
Ancient Civilization of the World	2	2	5%
Ancient India & the World	1	1	3%
Major Philosophies of the World	1	1	3%
Novel Society	1	1	3%
Period o Struggle between 1206 - 1756	1	1	3%
Russian Revolution	1	1	3%
Social Reformers in India	1	1	3%
Political Science	11	11	28%
Working of institutions	4	4	10%
Constitutional Design	1	1	3%
Constitution of India	1	1	3%
Democratic Rights	1	1	3%
Federalism	1	1	3%
Outcomes of Democracy	1	1	3%
Political Development In India	1	1	3%
State Government	1	1	3%
Economics	7	7	18%
Economics & Economy	2	2	5%
Consumer Rights	1	1	3%
Development	1	1	3%
Money & Credit	1	1	3%
Sectors of Indian Economy	1	1	3%
Story of Village Palampur	1	1	3%

EXPECTED CUTOFF

Nucleus Education Experts feel that as the overall paper was difficult from previous year, the cutoff is expected to decrease from last year. Following is the state wise and category wise cutoff for NTSE Stage 1:

Cutoff Prediction 2018-19				
State	Gen	OBC	ST	SC
Rajasthan	170	155	140	139
Andhra Pradesh	177	160	144	155
Gujarat	227	204	203	207
Madhya Pradesh	180	162	121	147
Maharashtra	147	132	103	116
Uttar Pradesh	161	145	120	133
Bihar	132	119	129	111
Punjab	133	120	117	117
Haryana	169	152	141	141
New Delhi	175	157	125	121
Chhattisgarh	156	140	121	132
Jharkhand	151	136	123	139
Kerala	141	127	87	103
Telangana	157	142	144	136
Odisha	140	126	101	112
Karnataka	137	124	99	108
Tamil Nadu	160	144	131	133
West Bengal	135	121	88	117