

What is the Syllabus of NTSE? A Complete Guide to NTSE Syllabus for Class 10th

If you are preparing for the National Talent Search Examination (NTSE), it is crucial to understand the NTSE syllabus for Class 10th. The NTSE exam is conducted in two stages – Stage 1 and Stage 2 – and tests the knowledge of students in subjects such as Mathematics, Science, Social Science, and Mental Ability. In this article, we will provide a comprehensive guide to the NTSE syllabus for Class 10th, including the subjects and topics that you need to cover for each stage of the exam.

Table of Contents

1. Introduction to NTSE Syllabus for Class 10th
2. NTSE Stage 1 Syllabus for Class 10th
 - Mental Ability Test
 - Mathematics
 - Science
 - Social Science
3. NTSE Stage 2 Syllabus for Class 10th
 - Mental Ability Test
 - Mathematics
 - Science
 - Social Science
4. Tips for NTSE Preparation
5. Conclusion
6. FAQs

Introduction to [NTSE Syllabus](#) for Class 10th

The NTSE exam is a prestigious scholarship program that is conducted by the National Council of Educational Research and Training (NCERT) for students studying in Class 10th. The exam is divided into two stages, and students who qualify for both stages are awarded scholarships for their higher education. To succeed in the NTSE exam, it is crucial to understand the syllabus and prepare accordingly.

NTSE Stage 1 Syllabus for Class 10th

The first stage of the NTSE exam is conducted at the state level, and tests the students' knowledge in subjects such as Mental Ability, Mathematics, Science, and Social Science. Here is the detailed syllabus for each subject:

Mental Ability Test

The Mental Ability Test is designed to assess the student's analytical and logical reasoning skills. It includes topics such as:

- Analogy
- Classification
- Series
- Pattern perception
- Hidden figures
- Coding-Decoding
- Problem-solving
- Logical reasoning

Mathematics

The Mathematics section of the NTSE Stage 1 exam tests the student's mathematical ability and understanding of concepts. The topics covered in this section include:

- Real Numbers
- Polynomials
- Linear Equations in two variables
- Quadratic Equations
- Arithmetic Progressions
- Triangles
- Coordinate Geometry
- Trigonometry
- Mensuration
- Statistics and Probability

Science

The Science section of the NTSE Stage 1 exam tests the student's understanding of scientific concepts and principles. The topics covered in this section include:

- Physics
- Motion and Time
- Force and Laws of Motion
- Gravitation
- Work and Energy
- Sound
- Light
- Electricity and Magnetism
- Chemistry
- Structure of Atoms

- Chemical Reactions and Equations
- Acids, Bases and Salts
- Metals and Non-Metals
- Carbon and its Compounds
- Biology
- Cell - The Basic Unit of Life
- Tissues
- Diversity in Living Organisms
- Life Processes
- Control and Coordination in Animals and Plants
- Reproduction in Plants and Animals
- Heredity and Evolution

NTSE Stage 2 Syllabus for Class 10th

The second stage of the NTSE exam is conducted at the national level, and tests the students' knowledge in the same subjects as Stage 1. However, the difficulty level of the questions in Stage 2 is much higher than in Stage 1. Here is the detailed syllabus for each subject:

Mental Ability Test

The Mental Ability Test in NTSE Stage 2 is designed to assess the student's analytical and logical reasoning skills. The topics covered in this section include:

- Verbal and Non-Verbal Analogy
- Series
- Classification
- Coding-Decoding
- Distance and Direction
- Ranking and Arrangement
- Blood Relations
- Mathematical Operations
- Logical Venn Diagrams
- Number and Alphabetical Series

Mathematics

The Mathematics section of the NTSE Stage 2 exam tests the student's mathematical ability and understanding of concepts. The topics covered in this section include:

- Sets, Relations, and Functions
- Real Numbers
- Polynomials
- Quadratic Equations

- Sequences and Series
- Trigonometry
- Coordinate Geometry
- Geometry
- Statistics and Probability
- Mathematical Reasoning

Science

The Science section of the NTSE Stage 2 exam tests the student's understanding of scientific concepts and principles. The topics covered in this section include:

- Physics
- Laws of Motion
- Work, Energy, and Power
- Gravitation
- Thermodynamics
- Waves and Optics
- Electrostatics
- Current Electricity
- Magnetism and Electromagnetism
- Modern Physics
- Chemistry
- Structure of Atom
- Chemical Bonding and Molecular Structure
- Thermodynamics
- Chemical Equilibrium
- Acids and Bases
- Electrochemistry
- Metals and Non-Metals
- Organic Chemistry
- Biology
- Diversity in Living Organisms
- Structural Organisation in Animals and Plants
- Cell Structure and Function
- Plant Physiology
- Human Physiology
- Genetics and Evolution
- Biology and Human Welfare
- Biotechnology

Social Science

The Social Science section of the NTSE Stage 2 exam tests the student's understanding of historical, geographical, and political concepts. The topics covered in this section include:

- History
- Nationalism in India
- The Making of a Global World
- The Age of Industrialisation
- Work, Life and Leisure
- Print Culture and the Modern World
- Novels, Society and History
- Geography
- Resources and Development
- Forest and Wildlife Resources
- Water Resources
- Agriculture
- Minerals and Energy Resources
- Manufacturing Industries
- Lifelines of National Economy
- Political Science
- Power Sharing
- Federalism
- Democracy and Diversity
- Gender, Religion and Caste
- Popular Struggles and Movements
- Political Parties
- Outcomes of Democracy
- Economics
- Development
- Sectors of Indian Economy
- Money and Credit
- Globalisation and the Indian Economy
- Consumer Rights

Tips for [NTSE Preparation](#)

Preparing for the NTSE exam requires a strategic approach and dedication. Here are some tips that can help you prepare for the exam:

- Understand the syllabus and exam pattern thoroughly
- Practice previous year question papers to get an idea of the types of questions asked in the exam
- Make a study plan and stick to it
- Focus on your weaknesses and work on

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