



NDA 1 2027

# Complete Maths & GAT Syllabus Tracker

Topic-wise syllabus, weightage and a printable progress plan - in one saveable resource.

**Start here.** Use this tracker to see every Maths, English and General Knowledge topic in the updated NDA 1 2027 syllabus guide, then tick sections off as you finish them.

PAPER I

**Maths - 300**

8 topic blocks

GAT PART A

**English - 200**

10 question-types / blocks

GAT PART B

**GK - 400**

6 subject areas

## What This Syllabus Tracker Covers

- |                                                              |                                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> All 8 NDA Maths syllabus blocks     | <input type="checkbox"/> English topic-wise question weightage          |
| <input type="checkbox"/> Maths topic-wise question weightage | <input type="checkbox"/> Complete GK topic lists + percentage weightage |
| <input type="checkbox"/> Complete GAT English syllabus       | <input type="checkbox"/> 3-phase syllabus completion plan               |

**Accuracy note:** The NDA & NA (I), 2027 notification is scheduled for 2 December 2026. This tracker follows the current syllabus structure and the weightages used in MKC's updated syllabus guide; verify any 2027 changes against the official notification.



PAPER I - MATHEMATICS

# Maths Syllabus - Weightage Priority View

Use the eight syllabus blocks as your master Maths tracker. Weightage shows the question range used in the updated MKC guide.

## Algebra

22-28 Questions - Highest Weightage

Sets, Venn diagrams, De Morgan's laws, Cartesian products, ...

## Matrices & Determinants

9-12 Questions

Types of matrices, Matrix operations, Determinants, Properties of determinants, ...

## Trigonometry

10-15 Questions

Trigonometric ratios, Trigonometric identities, Multiple and sub-multiple angles, Inverse trigonometric functions, ...

## Analytical Geometry (2D & 3D)

15-25 Questions

Cartesian coordinates, Distance between points, Straight lines, Angle between lines, ...

## Differential Calculus

12-18 Questions

Functions, Limits, Continuity, Derivatives, ...

## Integral Calculus & Differential Equations

12-18 Questions

Integration, Standard integrals, Integration by substitution, Integration by parts, ...

## Vector Algebra

5-8 Questions

Vectors in two and three dimensions, Magnitude, Direction, Unit vectors, ...

## Statistics & Probability

5-10 Questions

Classification of data, Frequency distribution, Mean, Median, ...

## Simple Completion Rule

1

### Concepts

Understand the chapter.



2

### Formulas

Create quick-revision notes.



3

### PYQs

Test with NDA questions.

**Priority cue:** Algebra carries the highest question range in the guide. Analytical Geometry and both Calculus blocks also carry substantial weightage.



**DETAILED TRACKER**

# Algebra, Matrices & Trigonometry

Tick the block only after you have covered the listed concepts, revised formulas and solved NDA-level PYQs.

## ☐ Algebra

22-28 Questions - Highest Weightage

- Sets
- Venn diagrams
- De Morgan's laws
- Cartesian products
- Relations
- Real numbers
- Complex numbers
- Binary numbers
- Arithmetic progression
- Geometric progression
- Quadratic equations
- Permutations and combinations
- Binomial theorem
- Logarithms

## ☐ Matrices & Determinants

9-12 Questions

- Types of matrices
- Matrix operations
- Determinants
- Properties of determinants
- Adjoint
- Inverse
- Solving simultaneous equations

## ☐ Trigonometry

10-15 Questions

- Trigonometric ratios
- Trigonometric identities
- Multiple and sub-multiple angles
- Inverse trigonometric functions
- Applications involving height and distance



DETAILED TRACKER

# Geometry, Calculus, Vectors & Statistics

Complete the remaining five Maths blocks and use the weightage column to plan revision time.

## ☐ Analytical Geometry (2D & 3D)

15-25 Questions

- Cartesian coordinates
- Distance between points
- Straight lines
- Angle between lines
- Circles
- Parabola
- Ellipse
- Hyperbola
- Three-dimensional coordinates

## ☐ Differential Calculus

12-18 Questions

- Functions
- Limits
- Continuity
- Derivatives
- Derivative of composite functions
- Second-order derivatives
- Increasing and decreasing functions
- Maxima and minima

## ☐ Integral Calculus & Differential Equations

12-18 Questions

- Integration
- Standard integrals
- Integration by substitution
- Integration by parts
- Definite integrals
- Applications involving area
- Differential equations

## ☐ Vector Algebra

5-8 Questions

- Vectors in two and three dimensions
- Magnitude
- Direction
- Unit vectors
- Addition of vectors
- Scalar product
- Vector product

## ☐ Statistics & Probability

5-10 Questions

- Classification of data
- Frequency distribution
- Mean
- Median
- Mode
- Variance
- Standard deviation
- Probability
- Conditional probability
- Bayes' theorem
- Binomial distribution



PART A - ENGLISH

# NDA GAT English Syllabus

English carries 200 marks in the GAT. Use the question ranges to balance daily grammar, vocabulary and comprehension practice.

## ☐ Spotting Errors

8-10 Questions

- Subject-verb agreement
- Tenses
- Prepositions
- Articles

## ☐ Comprehension

5-7 Questions

- Reading a passage and answering questions on main idea and inference

## ☐ Fill in the Blanks

5-6 Questions

- Vocabulary
- Context clues
- Conjunctions

## ☐ Sentence Improvement

5-6 Questions

- Choosing the grammatically correct version

## ☐ Synonyms & Antonyms

4-5 Questions

- Word meanings from a given list

## ☐ Idioms & Phrases

3-4 Questions

- Common expressions and their meanings

## ☐ Ordering of Sentences

3-4 Questions

- Arranging jumbled sentences logically

## ☐ Active & Passive Voice

2-3 Questions

- Converting sentences between voices

## ☐ Direct & Indirect Speech

2-3 Questions

- Converting between direct and reported speech

## ☐ Tenses

3-4 Questions

- Correct usage of present, past and future forms

**Daily rule:** Keep English active every day. The updated guide recommends regular grammar, vocabulary and comprehension practice rather than leaving the section for the end.



PHYSICS

# Physics Syllabus - 25% Weightage

Use this page as a full checklist. Every Physics topic listed in the updated syllabus guide is included below.

**1** Physical Properties and States of Matter, Modes of Transfer of Heat, Mass, Weight, Volume, Sound Waves and Their Properties.

**2** Simple musical instruments, Rectilinear propagation of Light, Density and Specific Gravity, Reflection and refraction.

**3** Principle of Archimedes, Spherical Mirrors and Lenses.

**4** Pressure, Barometer, Human Eye, Motion of Objects, Natural and Artificial Magnets.

**5** Velocity and Acceleration, Properties of a Magnet, Newton's Laws of Motion, Earth as a Magnet.

**6** Force and Momentum, Static and Current Electricity, Parallelogram of Forces, Conductors and Non-conductors, Stability and Equilibrium of bodies.

**7** Ohm's Law, Gravitation, Simple Electrical Circuits, Elementary ideas of work, Heating, Lighting, and Magnetic effects of Current, Power and Energy, Measurement of Electrical Power, Effects of Heat, Primary and Secondary Cells, Measurement of Temperature and Heat, Use of X-Rays, General Principles in the working of Simple Pendulum, Simple Pulleys, Siphon, Levers, Balloon, Pumps, Hydrometer, Pressure Cooker, Thermos Flask, Gramophone, Telegraphs, Telephone, Periscope, Telescope, Microscope, Mariner's Compass, Lightning Conductors, Safety Fuses.



CHEMISTRY + GENERAL SCIENCE

# Chemistry & General Science Syllabus

Chemistry carries 15% and General Science 10% of the GK weightage in the updated guide.

## Chemistry

15%

- ☐ Physical and chemical changes, elements, mixtures, compounds, symbols, formulae, simple chemical equations.
- ☐ Laws of chemical combination (excluding numerical problems), properties of air and water.
- ☐ Preparation and properties of Hydrogen, Oxygen, Nitrogen, Carbon Dioxide.
- ☐ Oxidation and reduction processes, acids, bases, salts.
- ☐ Different forms of carbon.
- ☐ Natural and artificial fertilizers.
- ☐ Materials for producing soap, glass, ink, paper, cement, paints, safety matches, gunpowder.
- ☐ Atomic structure, atomic weight, equivalent weight, molecular weight, valency.

## General Science

10%

- ☐ Difference between the living and non-living
- ☐ Basis of Life-Cells, Protoplasm and Tissues
- ☐ Growth and Reproduction in Plants and Animals
- ☐ Elementary knowledge of Human Body and its important organs
- ☐ Common Epidemics, their causes and prevention
- ☐ Food-Source of Energy for man
- ☐ Constituents of food
- ☐ Balanced Diet
- ☐ The Solar System-Meteors and Comets, Eclipses
- ☐ Achievements of Eminent Scientists



**HISTORY + GEOGRAPHY**

# History & Geography Syllabus

Both History & Freedom Movement and Geography carry 20% weightage in the updated guide.

## History & Freedom Movement

**20%**

- ☐ Broad survey of Indian history, culture, and ancient civilizations.
- ☐ Freedom movement in India.
- ☐ Elementary study of the Indian Constitution and administrative machinery.
- ☐ Five-Year Plans of India, Panchayati Raj, cooperatives, community development.
- ☐ Bhoodan, Sarvodaya, National Integration, Welfare State, teachings of Mahatma Gandhi.
- ☐ Modern world forces: Renaissance, exploration, discovery, War of American Independence.
- ☐ French Revolution, Industrial Revolution, Russian Revolution.
- ☐ Impact of science and technology on modern society.
- ☐ Concepts of One World, United Nations, Panchsheel, Democracy, Socialism, Communism.
- ☐ Role of India in the modern world.

## Geography

**20%**

- ☐ The Earth: shape, size, latitudes, longitudes, concept of time, International Date Line.
- ☐ Movements of Earth and their seasonal effects, origin of Earth.
- ☐ Rocks and their classification, mechanical and chemical weathering, earthquakes, volcanoes.
- ☐ Ocean currents and tides.
- ☐ Atmosphere composition, temperature, atmospheric pressure, planetary winds, cyclones, anti-cyclones.
- ☐ Humidity, condensation, precipitation, types of climate, major natural regions of the world.
- ☐ Regional geography of India: climate, natural vegetation, mineral and power resources.
- ☐ Location and distribution of Indian agricultural and industrial activities.
- ☐ Important seaports, main sea, land, and air routes of India.
- ☐ Main items of imports and exports of India.



## CURRENT EVENTS

# Current Events Syllabus - 10% Weightage

Use this as a rolling monthly checklist. Update your notes as new events enter the news cycle.

- |                                                                                                                                              |                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <input type="checkbox"/> Recent important happenings and events in India                                                                     | <input type="checkbox"/> Important international happening and events           |
| <input type="checkbox"/> Prominent Indian personalities as well as International personalities connected with cultural activities and sports | <input type="checkbox"/> Heritage and Culture                                   |
| <input type="checkbox"/> Military exercises and locations                                                                                    | <input type="checkbox"/> Defence deals and countries                            |
| <input type="checkbox"/> Recent wars between countries                                                                                       | <input type="checkbox"/> Geographical locations of countries involved in war    |
| <input type="checkbox"/> Important appointments                                                                                              | <input type="checkbox"/> Latest sports events held in India and abroad          |
| <input type="checkbox"/> New schemes launched by the Government of India                                                                     | <input type="checkbox"/> Important international seminars and their venues      |
| <input type="checkbox"/> Important days and their themes                                                                                     | <input type="checkbox"/> Latest books and authors                               |
| <input type="checkbox"/> National and international awards and ceremonies                                                                    | <input type="checkbox"/> Recent seminars and meetings related to climate change |
| <input type="checkbox"/> Important constructions such as tunnels and bridges                                                                 | <input type="checkbox"/> Constitutional articles and provisions in the news     |
| <input type="checkbox"/> Important places covered in the news recently                                                                       |                                                                                 |

## GK Weightage Map

Physics**25%**

Chem**15%**

Sci**10%**

History**20%**

Geo**20%**

Current**10%**



YOUR NEXT STEPS

# Turn the Syllabus Into an Action Plan

Use the three phases below, then keep the master tracker visible while you study.

1

## Cover

Oct-Dec 2026

Finish all eight Maths blocks and GK theory; 20-30 minutes of English daily.

2

## Consolidate

Jan-Feb 2027

Solve topic-wise PYQs, fix weak blocks and balance board preparation.

3

## Compete

Mar-Apr 2027

Full-length timed mocks, error logs and negative-marking control.

**Key takeaway:** Finish the syllabus by February. March is for mocks, not new chapters.

## Master Progress Tracker

### Maths

- ☐ Algebra - 22-28 Questions - Highest Weightage
- ☐ Matrices & Determinants - 9-12 Questions
- ☐ Trigonometry - 10-15 Questions
- ☐ Analytical Geometry (2D & 3D) - 15-25 Questions
- ☐ Differential Calculus - 12-18 Questions
- ☐ Integral Calculus & Differential Equations - 12-18 Questions
- ☐ Vector Algebra - 5-8 Questions
- ☐ Statistics & Probability - 5-10 Questions

### English

- ☐ Spotting Errors - 8-10 Questions
- ☐ Comprehension - 5-7 Questions
- ☐ Fill in the Blanks - 5-6 Questions
- ☐ Sentence Improvement - 5-6 Questions
- ☐ Synonyms & Antonyms - 4-5 Questions
- ☐ Idioms & Phrases - 3-4 Questions
- ☐ Ordering of Sentences - 3-4 Questions
- ☐ Active & Passive Voice - 2-3 Questions
- ☐ Direct & Indirect Speech - 2-3 Questions
- ☐ Tenses - 3-4 Questions

### GK

- ☐ Physics - 25%
- ☐ Chemistry - 15%
- ☐ General Science - 10%
- ☐ History & Freedom Movement - 20%
- ☐ Geography - 20%
- ☐ Current Events - 10%

**Know the syllabus. Now test your preparation.**

Take a free NDA mock test and clear your doubts with experts at Major Kalshi Classes.

**Take the Free Mock Test**