



Study Planner for Foundation-IX



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From Managing Director's Desk

A lot has changed at Aakash during the transition from a humble coaching institute to becoming a recognized name in the education field. We live by the notion that the very essence of success is a strong value system. We still believe in the age-old Indian concept of "Guru-Shishya" relationship where a guru shares his knowledge reserve with his pupils and the 'Shishya' strives hard to quench his/her thirst for knowledge.

It has been our endeavour to make Aakash much more than a coaching institute, which is to build it into an institution of repute and purpose. We consider our students the torchbearers of the future of the country and thus, aim to enlighten the future of the nation through this young generation. We dream of a progressing India through the eyes of our students and assist them in accomplishing their dreams with the collective efforts of our faculty & staff members, our students and their parents.

For 31 years, we have been nurturing students and helping them in their endeavour to qualify in various Engineering and Medical entrance exams in the country. This endeavour is actually a journey, which we take along with our students. We wish to feel their emotions, their frustrations, their dreams, their vision, their struggles and their joys. Together we live an experience, which they would remember as one of the most cherished moments in their lives after qualifying the coveted competitive exams.

Even today, we aim at clearing doubts and strengthening the fundamentals of students in their subjects, because we believe these cleared doubts and strengthened fundamentals will eventually strengthen the destiny of our nation, which actually lies in these hands that are holding the 'mighty' pen & are now learning with technology. And we are confident that with Aakash, their future is in safe and progressive hands.

J. C. Chaudhry

Chairman & Managing Director (CMD)

About Aakash iTutor

Recorded Video Lectures on Olympiads syllabus by master Aakash Faculty help you boost your preparation and perform well in the exam. Learn at your own pace with Video Lectures. Assess yourself by taking the online tests and clear your doubts via 'Ask an Expert'.

Your tools to prepare

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Study Planner

For systematic planning and execution of your preparation



Notifications

Check for updates from us

Doubt Clearance



Ask an expert

Get real time solutions from our database of queries and answers. Also get your doubts clarified by Aakash Faculty in a stipulated time

Olympiads

Olympiads provide a unique competitive platform to young intellectuals. They help students analyse their weak and strong attributes and bring out the best in them. Olympiads are highly challenging in nature which improves students' aptitude and builds their confidence. In addition, they cultivate analytical thinking, improve conceptual understanding and enhance problem solving skills.

Each Olympiad is a separate exam with its own organizing body and a common set of rules and regulations. Olympiad exams thus serve as a platform to challenge the intellectual minds in mathematics and science across the world.



About the Course

The course has been designed to give you an edge over other students while appearing for Olympiads. It covers up all the topics with an emphasis on each topic in proportion to Olympiads.

The Study Planner helps you plan your preparation weeks and ensures that you complete the course on time and even get time to revise it. It helps you increase efficiency, manage time and motivate yourself to get the best score.

The Parent Monitoring Sheet, which your parent/guardian will have to fill in, helps to track your preparation

This course contains the following:



950+ hours of curated video content



750+ Topics covered in-depth



30+ ebooks covering the entire syllabus

For Our Students:

Thank you for choosing Aakash iTutor as your trusted partner for, Olympiads preparation. With sincere study, daily and timely revision, you can ensure success in your examination. Track your progress by ticking against the chapters/topics that you have completed.

We wish you the best for your exam preparation.

For Parents:

Dear Parent,

Thank you for choosing Aakash iTutor as a trusted partner for building your child's career! This course will help your child prepare for Olympiads. We request you to have a weekly discussion with your child, track their progress with the help of study planner and fill up the Parent Monitoring Sheet.

Weekly Study Planner

April, 2020 (Week 1)

Physics

Chapter 1: Motion

1.1 Motion, Rest, Distance & Displacement

Chemistry

Chapter 1: Matter In Our Surroundings

☐ 1.1 Matter and its Solid State

Biology

Chapter 1: The Fundamental Unit of Life

☐ 1.1 Introduction to cell ,history of events in cytology , microscopy

Mathematics

Chapter 1: Number System

☐ 1.1 Introduction To Rational Numbers and their Decimal Representation
☐ 1.2 Conversion of decimal into rational Number of form p/q , Converting terminating decimal to p/q
☐ 1.3 Irrational numbers

April, 2020 (Week 2)

Physics

Chapter 1: Motion

1.2 Speed & Velocity

Chemistry

Chapter 1: Matter In Our Surroundings

☐ 1.2 Liquid State

Biology

Chapter 1: The Fundamental Unit of Life

☐ 1.2 Structural Organization of a Cell

Mathematics

Chapter 1: Number System

☐ 1.4 Representing irrational numbers on the number line
☐ 1.5 Successive magnification and Rationalisation
☐ 1.6 surds
☐ 1.7 Laws of exponents for real numbers
☐ 1.8 Problems Based on Competitive Exams

Weekly Study Planner

April, 2020 (Week 3)

Physics

Chapter 1: Motion

1.3 Numericals based on Average Speed and velocity ☐

Chemistry

Chapter 1: Matter In Our Surroundings

1.3 Gas, Plasma and BEC ☐

Biology

Chapter 1: The Fundamental Unit of Life

1.3 Cell Organelles ☐

Mathematics

Chapter 2: Polynomials

2.1 Introduction, Terms, Coefficients, Standard form, Classification on basis of terms, Degree of the polynomial, Classification of polynomials on basis of degree (also Zero polynomial), Value of the polynomial ☐

April, 2020 (Week 4)

Physics

Chapter 1: Motion

1.4 Acceleration & Retardation ☐

Chemistry

Chapter 1: Matter In Our Surroundings

1.4 State variables and Latent heat ☐

Biology

Chapter 1: The Fundamental Unit of Life

1.4 Cell Organelles ☐

Mathematics

Chapter 2: Polynomials

2.2 Zeroes of a polynomial, Problems Discussion, Division of polynomials ☐
2.3 Remainder theorem ☐
2.4 Factor theorem ☐

Weekly Study Planner

May, 2020 (Week 1)

Physics

Chapter 1: Motion

- 1.5 Graphical representation of motion ☐
- 1.6 Numericals based on Graphs ☐

Chemistry

Chapter 1: Matter In Our Surroundings

- 1.5 Advanced Lecture ☐
- 1.6 Assignment ☐

Biology

Chapter 1: The Fundamental Unit of Life

- 1.5 Cell Organelles ☐
- 1.6 Cell Organelles and their comparison in functions ☐

Mathematics

Chapter 2: Polynomials

- 2.5 Factorisation ☐
- 2.6 Factorisation by middle term splitting ☐
- 2.7 Factorisation of polynomial by factor theorem ☐

May, 2020 (Week 2)

Physics

Chapter 1: Motion

- 1.7 Equations Of Motion ☐
- 1.8 Numericals Based on Equations of motion PART-1 ☐

Chemistry

Chapter 2: Is Matter Around us Pure?

- 2.1 Pure substances ☐
- 2.2 Mixture ☐

Biology

Chapter 2: Tissues

- 2.1 Plant tissues, Meristematic Tissues ☐
- 2.2 Simple permanent tissues ☐

Mathematics

Chapter 2: Polynomials

- 2.8 Algebraic identities ☐
- 2.9 Algebraic identities ☐
- 2.10 Algebraic identities ☐
- 2.11 Relationship between zeroes and coefficient of Quadratic Polynomial ☐

Weekly Study Planner

May, 2020 (Week 3)

Physics

Chapter 1: Motion

- 1.9 Numericals Based on Equations of motion PART-2 ☐
- 1.10 Uniform Circular Motion & Relative Velocity ☐

Chemistry

Chapter 2: Is Matter Around us Pure?

- 2.3 Solution and its concentration ☐
- 2.4 Colloids and their characteristics ☐

Biology

Chapter 2: Tissues

- 2.3 Complex Permanent Tissues ☐
- 2.4 Animal Tissues-I ☐

Mathematics

Chapter 3: Coordinate Geometry

- 3.1 Distance between two points ☐
- 3.2 Application of distance formula ☐
- 3.3 Some important points about special type of quadrilaterals ☐
- 3.4 Section formula, Area of triangle using coordinate geometry ☐

May, 2020 (Week 4)

Physics

Chapter 1: Motion

- 1.11 Motion under gravity (Uniformly accelerated motion) ☐
- 1.12 Previous Year Questions NTSE STAGE-1 & STAGE- 2 ☐

Chemistry

Chapter 2: Is Matter Around us Pure?

- 2.5 Colloids, Changes and Separation of solid-solid mixture ☐
- 2.6 Separation of constituents of Mixture ☐

Biology

Chapter 2: Tissues

- 2.5 Animal Tissues-II ☐
- 2.6 Animal Tissues-III ☐

Mathematics

Chapter 4: Coordinate Geometry

- 4.1 Introduction, Solution of linear equations ☐
- 4.2 Graph of linear equations in two variables ☐

Weekly Study Planner

June, 2020 (Week 1)

Physics

Chapter 2: Force & laws of motion

- 2.1 Introduction to force & Newton's first law of motion ☐
- 2.2 Linear momentum & Newton's Second law of motion ☐

Chemistry

Chapter 2: Is Matter Around us Pure?

- 2.6 Summary of Separation techniques and Assignment ☐

Biology

Chapter 3: Diversity in Living Organisms

- 3.1 Introduction, Basis of classification, Taxonomy ☐
- 3.2 The Hierarchy of classification, Systems of classification, Kingdom monera ☐

Mathematics

Chapter 4: Coordinate Geometry

- 4.3 Problems based on linear equation in two variables ☐
- 4.4 Solving linear equation in two variables using elimination and substitution method ☐
- 4.5 Application of Linear Equations in two variables in Practical Problems ☐

June, 2020 (Week 2)

Physics

Chapter 2: Force & laws of motion

- 2.3 Newton's third law of motion & conservation of linear momentum ☐
- 2.4 Numericals based on Conservation of linear momentum ☐

Chemistry

Chapter 3: Atoms and Molecules

- 3.1 Laws of Chemical Combinations ☐

Biology

Chapter 3: Diversity in Living Organisms

- 3.3 Protista, Fungi, Thallophyta ☐
- 3.4 Bryophyta, Pteridophyta, Gymnospermae, Angiosperm ☐

Mathematics

Chapter 5: Introduction To Euclid's Geometry

- 5.1 Introduction, Euclid's Definitions, Undefined elements of geometry, Well defined terms, Euclid's Axioms, Euclid's five postulates, Playfair's axiom (equivalent versions, fifth postulate) ☐
- 5.2 Theorems on parallel lines and intersecting lines, Plane and its properties ☐

Weekly Study Planner

June, 2020 (Week 3)

Physics

Chapter 2: Force & laws of motion

- 2.5 Connected motion ☐
- 2.6 Friction & Spring Force ☐

Chemistry

Chapter 3: Atoms and Molecules

- 3.2 Atoms and Molecules ☐

Biology

Chapter 3: Diversity in Living Organisms

- ☐ 3.5 Basic of classification
- 3.6 Non-chordata ☐

Mathematics

Chapter 6: Lines and Angles

- 6.1 Basics of Lines & Angles, types of angles, complementary and supplementary angles ☐
- 6.2 Pairs of angles, Linear pair axioms and problem based on pair of angles ☐

June, 2020 (Week 4)

Physics

Chapter 2: Force & laws of motion

- 2.7 Numericals based on Connected motion ☐
- 2.8 Previous Year Questions NTSE STAGE-1 & STAGE- 2 ☐

Chemistry

Chapter 3: Atoms and Molecules

- 3.3 Ions ☐

Biology

Chapter 3: Diversity in Living Organisms

- ☐ 3.5 Chordate
- Chapter 4: Why Do We Fall Ill?**
- 4.1 Human health and disease ☐

Mathematics

Chapter 6: Lines and Angles

- 6.3 Transversal line & angle made by it with two lines ☐
- 6.4 Problem based on Transversal line & angle made by it with two lines ☐
- 6.5 Theorem and Problems based on Transversal and angle made by them ☐
- 6.6 Angle sum property of a triangle Exterior angle theorem ☐

Weekly Study Planner

July, 2020 (Week 1)

Physics

Chapter 3: Gravitation

- 3.1 Universal law of Gravitation ☐
- 3.2 Acceleration due to gravity & variation in acceleration due to gravity ☐

Chemistry

Chapter 3: Atoms and Molecules

- 3.4 Molecular weight, Formula mass ☐

Biology

Chapter 4: Why Do We Fall Ill?

- 4.2 Types of diseases ☐

Mathematics

Chapter 6: Lines and Angles

- 6.7 Problem Discussion Based on Lines & Angles ☐
- 6.8 Problem Discussion Based on Lines & Angles ☐
- 6.9 Problem Discussion Based on Lines & Angles ☐

July, 2020 (Week 2)

Physics

Chapter 3: Gravitation

- 3.3 Numericals based on motion under gravity (Advance Problems) ☐
- 3.4 Kepler's laws of planetary motion ☐

Chemistry

Chapter 3: Atoms and Molecules

- 3.5 Mole Concept ☐

Biology

Chapter 4: Why Do We Fall Ill?

- 4.3 Principle of prevention ☐

Mathematics

Chapter 7: Triangles

- 7.1 Introduction, Classification of triangles: On basis of Sides, On basis of Angles, Some important terms related to a triangle, Concept of congruence, Congruent triangles ☐
- 7.2 Criteria of congruence of two triangles, SAS congruence criterion ☐
- 7.3 ASA congruence criterion, AAS Congruence criterion ☐

Weekly Study Planner

July, 2020 (Week 3)

Physics

Chapter 3: Gravitation

- 3.5 Thrust, Pressure & Floatation ☐
- 3.6 Advance problems (floatation) PART-1 ☐

Chemistry

Chapter 3: Atoms and Molecules

- 3.6 Concentration Terms ☐

Biology

Chapter 5: Natural Resources

- 5.1 Natural Resources, The breath of life – Air ☐

Mathematics

Chapter 7: Triangles

- 7.4 Properties of an isosceles triangle ☐
- 7.5 SSS congruence criterion ☐
- 7.6 RHS congruence criterion ☐

July, 2020 (Week 4)

Physics

Chapter 3: Gravitation

- 3.7 Advance problems (floatation) PART-2 ☐
- 3.8 Previous Year Questions NTSE STAGE-1 & STAGE- 2 ☐

Chemistry

Chapter 3: Atoms and Molecules

- 3.7 Questions on Concentration terms ☐

Biology

Chapter 5: Natural Resources

- 5.2 Rain and its mechanism ☐

Mathematics

Chapter 7: Triangles

- 7.7 Inequalities of triangles ☐
- 7.8 Problems on inequalities in triangles ☐
- 7.9 Problems on inequalities in triangles ☐

Weekly Study Planner

August, 2020 (Week 1)

Physics

Chapter 4: Work and Energy

4.1 Work & Types of work,
Introduction to energy

Chemistry

Chapter 3: Atoms and Molecules

3.8 Assignment Discussion

Biology

Chapter 5: Natural Resources

5.3 Water pollution

Mathematics

Chapter 8: Quadrilaterals

8.1 Introduction & angle sum
property ☐
8.2 Types of quadrilaterals Properties
of parallelograms ☐

August, 2020 (Week 2)

Physics

Chapter 4: Work and Energy

4.2 Kinetic & Potential energy

Chemistry

Chapter 3: Atoms and Molecules

3.9 Assignment Discussion

Biology

Chapter 5: Natural Resources

5.4 Biogeochemical cycles

Mathematics

Chapter 8: Quadrilaterals

8.3 Properties of parallelograms ☐
8.4 Problems based on the properties
of parallelograms ☐
8.5 Parallel lines & their intercepts ☐

Weekly Study Planner

August, 2020 (Week 3)

Physics

Chapter 4: Work and Energy

4.3 Transformation of energy & Power ☐

Chemistry

Chapter 4: Structure of Atom

4.1 Introduction to structure of Atom ☐

Biology

Chapter 6: Improvement in Food Resources

6.1 Introduction to Agricultural Crops ☐

Mathematics

Chapter 8: Quadrilaterals

8.6 Problem Discussion based on theorems and properties of quadrilaterals ☐
8.7 Problem Discussion based on theorems and properties of quadrilaterals ☐

August, 2020 (Week 4)

Physics

Chapter 4: Work and Energy

4.4 Numericals based on work and energy ☐

Chemistry

Chapter 4: Structure of Atom

4.2 Rutherford's Atomic Model, Bohr's Atomic model ☐

Biology

Chapter 6: Improvement in Food Resources

6.2 Improvement in Crop Yield ☐

Mathematics

Chapter 9: Areas Of Parallelograms And Triangles

9.1 Introduction, Figures on the same base and between same parallels & theorem based on it ☐
9.2 Problem Discussion Figures on the same base and between same parallels ☐

Weekly Study Planner

October, 2020 (Week 1)

Physics

Chapter 4: Work and Energy

- 4.5 Previous Year Questions NTSE STAGE-1 & STAGE- 2 ☐

Chemistry

Chapter 4: Structure of Atom

- 4.3 Neutron, Isobars, isotopes, Isoelectronic species, Isodiaphers ☐

Biology

Chapter 6: Improvement in Food Resources

- 6.3 Crop Production and Management-1 ☐

Mathematics

Chapter 9: Areas Of Parallelograms And Triangles

- 9.3 Formula to find the area of the given plane figure ☐
9.4 Triangles on the same base and between the same parallels ☐
9.5 Problems based on theorem and properties based on parallelograms ☐

October, 2020 (Week 2)

Physics

Chapter 5: Sound

- 5.1 Production & propagation of Sound ☐

Chemistry

Chapter 4: Structure of Atom

- 4.4 Electronic Configuration ☐

Biology

Chapter 6: Improvement in Food Resources

- 6.4 Crop Production and Management-2 ☐

Mathematics

Chapter 9: Areas Of Parallelograms And Triangles

- 9.6 Problems based on theorem and properties based on parallelograms ☐

Chapter 10: Circles

- 10.1 Introduction to Circles and Important Terms Related to Circles ☐

Weekly Study Planner

October, 2020 (Week 3)

Physics

Chapter 5: Sound

- 5.2 Fundamental characteristics of sound (loudness, Pitch, Quality) ☐

Chemistry

Chapter 4: Structure of Atom

- 4.5 Assignment ☐

Biology

Chapter 6: Improvement in Food Resources

- 6.5 Crop Protection Management ☐

Mathematics

Chapter 10: Circles

- 10.2 Theorems and property related to perpendicular from centre to a chord ☐
10.3 Chords and their Distance from Centre ☐
10.4 Circle Through Three Points, Congruent Circles and Congruent Arcs ☐

October, 2020 (Week 4)

Physics

Chapter 5: Sound

- 5.3 Reflection of sound ☐

Chemistry

Chapter 4: Structure of Atom

- 4.6 Assignment ☐

Biology

Chapter 6: Improvement in Food Resources

- 6.6 Animal Husbandry ☐

Mathematics

Chapter 10: Circles

- 10.5 Arcs and Angle Subtended By them ☐
10.6 Arcs and Angle Subtended by them, Cyclic Quadrilateral ☐
10.7 Cyclic Quadrilateral ☐

Weekly Study Planner

November, 2020 (Week 1)

Physics

Chapter 5: Sound

5.4 Numericals

Chemistry

Chapter 4: Structure of Atom

☐ 4.7 Questions Based on structure of atom

Biology

Chapter 6: Improvement in Food Resources

☐ 6.7 Poultry Farming and fish culture

Mathematics

Chapter 10: Circles

10.8 Problems Based on Theorems and Properties of Circle ☐
10.9 Problems based on Theorems and properties of circle ☐
10.10 Problems based on Theorems and properties of circle ☐

November, 2020 (Week 2)

Physics

Chapter 5: Sound

5.5 Previous Year Questions
NTSE STAGE-1 & STAGE- 2

Chemistry

Chapter 4: Structure of Atom

☐ 4.8 Advanced Lecture

Biology

Chapter 6: Improvement in Food Resources

☐ 6.8 Fish culture, Apiculture

Mathematics

Chapter 11: Constructions

11.1 Perpendicular Bisector of a line segment ☐
11.2 Some Construction of Triangles ☐
11.3 Some Construction of Triangles ☐

Weekly Study Planner

November, 2020 (Week 3)

Physics

Revision of Previous Topics

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Chemistry

Chapter 4: Structure of Atom

4.9 Questions based on Advanced lecture

☐

Biology

Revision of Previous Topics

☐

Mathematics

Chapter 12: Heron's Formula

- 12.1 Area of triangle, area of right triangle ☐
- 12.2 Area of an isosceles triangle ☐
- 12.3 Area of triangle using Heron's Formula ☐
- 12.4 Questions based on Application of Heron's Formula ☐

November, 2020 (Week 4)

Physics

Revision of Previous Topics

☐

Chemistry

Revision of Previous Topics

☐

Biology

Revision of Previous Topics

☐

Mathematics

Chapter 13: Surface Areas and Volumes

- 13.1 Surface Areas and Volumes of Cube and Cuboid ☐
- 13.2 Cube, Surface area of cube, Lateral surface area of cube, Volume of cube, Right circular cylinder, Surface area of right circular cylinder, Surface area of a hollow cylinder ☐

Weekly Study Planner

December, 2020 (Week 1)

Physics

Revision of Previous Topics ☐

Chemistry

Revision of Previous Topics ☐

Biology

Revision of Previous Topics ☐

Mathematics

Chapter 13: Surface Areas and Volumes

- 13.3 Volume of a cylinder, Volume of a hollow cylinder ☐
- 13.4 Surface area and volume of a Right circular cone ☐
- 13.5 Sphere and hemisphere, Section of a sphere by a plane, Surface area and volume of sphere, hemisphere and spherical shell ☐

December, 2020 (Week 2)

Physics

Revision of Previous Topics ☐

Chemistry

Revision of Previous Topics ☐

Biology

Revision of Previous Topics ☐

Mathematics

Chapter 13: Surface Areas and Volumes

- 13.6 Problems based on Surface area and volumes of various 3d Shapes ☐

Chapter 14: Statistics

- 14.1 Introduction to Collection & Presentation of Data, Ungrouped & Grouped Frequency Distribution Table ☐

Weekly Study Planner

December, 2020 (Week 3)

Physics

Revision of Previous Topics

☐

Chemistry

Revision of Previous Topics

☐

Biology

Revision of Previous Topics

☐

Mathematics

Chapter 14: Statistics

- 14.2 Grouped frequency distribution table, Graphical representation of data ☐
- 14.3 Histogram ☐
- 14.4 Frequency polygon ☐
- 14.5 Measures of central tendency, Mean, Median, Mode ☐

December, 2020 (Week 4)

Physics

Revision of Previous Topics

☐

Chemistry

Revision of Previous Topics

☐

Biology

Revision of Previous Topics

☐

Mathematics

Chapter 15: Probability

- 15.1 Introduction to Probability, Important Terms And Empirical Probability ☐
- 15.2 Problems Based on Empirical Probability ☐
- 15.3 Problems Based on Theoretical probability and cards ☐



Thank You

ALL THE BEST FOR YOUR EXAMS!!

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