ZEST 2026 · SYLLABUS

Class 9th

Science · Mathematics

ZEST
Zigyan Entrance cum Scholarship Test

PART 1
Before 15 November
Half Syllabus Test
13 chapters · 4 subject areas

PART 2
After 15 November
Full Syllabus Test
27 chapters · 4 subject areas

PART 1 HALF SYLLABUS TEST

Tests before 15 November

PHYSICS

3 chapters

01 Describing Motion Around Us — NCERT Ch. 4
Motion in a Straight Line · Describing Position · Distance Travelled and Displacement · Average Speed and Average Velocity · Average Acceleration · Graphical Representation of Motion · Plotting Graph · Position-Time Graphs · Velocity-Time Graphs · Kinematic Equations for Motion in a Straight Line · Motion in a Plane · Uniform Circular Motion

02 How Forces Affect Motion — NCERT Ch. 6
The Concept of Force · Measuring the Magnitude of a Force · Balanced and Unbalanced Forces · The Force of Friction: Often Overlooked but Always Present · Newton's First Law of Motion · Newton's Second Law of Motion · Newton's Third Law of Motion · Forces Acting on a System of Objects

03 Work, Energy, and Simple Machines — NCERT Ch. 7
Work Done by a Constant Force · When Is Work Done Equal to Zero? · Positive and Negative Work Done · The Work-Energy Theorem · Forms of Energy · Mechanical Energy · Kinetic Energy · Potential Energy · Conservation of Mechanical Energy · Power · Simple Machines · Pulley · Inclined Plane · Lever

CHEMISTRY

1 chapter

01 Exploring Mixtures and their Separation — NCERT Ch. 5
How Can We Classify Mixtures? · Solutions · How Do We Express Concentration? · Solubility of Substances · Methods of Separation of Homogeneous Mixtures · Crystallization · Distillation · Paper Chromatography · How Can We Separate the Components of Heterogeneous Mixtures? · Separation of Two Immiscible Liquids · Sublimation · Suspensions · Colloids · Tyndall Effect

BIOLOGY

2 chapters

01 Cell: The Building Block of Life — NCERT Ch. 2
How to Study Cells? · Structure of a Cell · Cell Membrane — The Universal Feature of a Cell · Cell Wall — The Outer Covering of Cells · The Cell Interior — A Coordinated Working System · Why Do Eukaryotic Cells Need These Organelles? · How Do Normal Cells Grow and Divide? · Cell Division · Cell Theory — The Unifying Principle of Biology · Do Cells Grow and Reproduce Forever?

02 Tissues in Action — NCERT Ch. 3
Why Are Plant and Animal Tissues Different? · Tissues for Growth in Plants · Apical Meristem · Lateral Meristem · Intercalary Meristem · Permanent Tissues · Animal Tissues · Epithelial Tissues — Structure and Functions · How Are Various Parts Connected in Our Body? · Can We Control Movement in Our Body? · How Does the Body Sense, Communicate and Respond? · The Musculoskeletal System · Types of Joints · Skeletal System

MATHEMATICS

7 chapters

01 Number System

NCERT Ch. 3

The Dawn of Mathematics: The Human Need to Count · The Revolution of Śhūnya: When Nothing Became Something · Integers: Expanding the Horizon · Filling the Spaces: Fractions and Rational Numbers · Representation of Rational Numbers on the Number Line · The Density of Rational Numbers · Irrational Numbers · The Proof of Irrationality of √2 · Construction of Length √n · Real Numbers: Decimals and Cyclic Patterns · Rational Decimals: Terminating and Repeating · The Magic of Cyclic Numbers · Irrational Decimals: Chaos and Infinity

02 Coordinate Geometry

NCERT Ch. 1

The 2-D Cartesian Coordinate System · Distance Between Two Points in the 2-D Plane

03 Polynomials

NCERT Ch. 2

Linear Polynomials · Exploring Linear Patterns · Linear Growth and Linear Decay · Linear Relationships · Visualising Linear Relationships

04 Euclid's Geometry

NCERT Ch. 5 (previous edition)

Euclid's Definitions, Axioms and Postulates

05 Probability

NCERT Ch. 7

What Is Probability? · What Is Randomness? · The Probability Scale · Measuring Probability Objectively · Experimental Probability: Performing Observations or Experiments · Theoretical Probability · Analysing Statistical Data Using Probability · Elements of Probability: Sample Spaces and Events · Sample Space · Events · Tree Diagrams

06 Lines and Angles

NCERT Ch. 6 (previous edition)

Basic Terms and Definitions · Intersecting Lines and Non-intersecting Lines · Pairs of Angles · Lines Parallel to the Same Line

07 Sequence and Progression

NCERT Ch. 8

Introduction to Sequences · Explicit Rule for a Sequence · Recursive Rule for a Sequence · Arithmetic Progressions · Visualising an AP · Sum of the First n Natural Numbers · Geometric Progressions · Fun with Fractals · Visualising a GP

PART 2 FULL SYLLABUS TEST

Tests after 15 November

PHYSICS

4 chapters

01 Sound Waves: Characteristics and Applications

NCERT Ch. 10

Production of Sound · Propagation of Sound · Sound Waves · Energy of Sound Waves · Graphical Representation of a Sound Wave · Characteristics of a Sound Wave · Wavelength, Frequency and Time Period · Amplitude and Intensity of the Sound Waves · Speed of Sound · Human Perception of Sound · Reflection of Sound · Echo · Reverberation · Ultrasonic and Infrasonic Waves, and their Applications

02 Describing Motion Around Us

NCERT Ch. 4

Motion in a Straight Line · Describing Position · Distance Travelled and Displacement · Average Speed and Average Velocity · Average Acceleration · Graphical Representation of Motion · Plotting Graph · Position-Time Graphs · Velocity-Time Graphs · Kinematic Equations for Motion in a Straight Line · Motion in a Plane · Uniform Circular Motion

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CHEMISTRY

3 chapters

01 Journey Inside the Atom

NCERT Ch. 8

Rediscovering the Roots of Atomic Theory · A Short Historical Journey Through Atomic Models · Thomson's Model of an Atom · Testing Thomson's Model: The Gold Foil Experiment · Bohr's Model of the Atom · What Components Contribute to the Mass of an Atom? · Symbols of Elements · Atomic Number · Mass Number · How Are Electrons Distributed in Different Energy Levels? · Combining Capacity of an Atom: Valency · A Deeper Look into Atomic Structure · Isotopes · Isobars

02 Atomic Foundations of Matter

NCERT Ch. 9

Law of Conservation of Mass · Law of Constant Proportions · Dalton's Atomic Theory · How Atoms Combine? · Bonding by Sharing of Electrons — Covalent Bond · Bonding by Electron Transfer — Ionic Bond · Writing Chemical Formulae · Writing Chemical Formulae of Covalent Compounds · Writing Chemical Formulae of Ionic Compounds · Properties of the Ionic and the Covalent Compounds · Molecular Mass of Covalent Compounds · Formula Unit Mass of Ionic Compounds

03 Exploring Mixtures and their Separation

NCERT Ch. 5

How Can We Classify Mixtures? · Solutions · How Do We Express Concentration? · Solubility of Substances · Methods of Separation of Homogeneous Mixtures · Crystallization · Distillation · Paper Chromatography · How Can We Separate the Components of Heterogeneous Mixtures? · Separation of Two Immiscible Liquids · Sublimation · Suspensions · Colloids · Tyndall Effect

BIOLOGY

5 chapters

01 Reproduction: How Life Continues

NCERT Ch. 11

Asexual Reproduction · Sexual Reproduction · How Does Meiosis Help Create Variations in Sexual Reproduction? · Sexual Reproduction in Flowering Plants · How Does the Process of Pollination Occur in Flowers? · Fertilisation and Seed Formation · Sexual Reproduction in Animals · Variations in Reproduction in Animals · Reproduction in Human Beings · What Are the Parts of the Male Reproductive System? · What Are the Parts of the Female Reproductive System? · What Happens When a Sperm Meets an Egg? · What Happens When an Egg Is Not Fertilised? · Pregnancy and Childbirth

02 Patterns in Life: Diversity and Classification

NCERT Ch. 12

India as a Biodiversity Hotspot · How Has the Biodiversity Evolved? · How to Classify Organisms? · Biological Classification Systems Over Time · Five Kingdom Classification · Kingdom Monera · Kingdom Protista · Kingdom Fungi · Kingdom Plantae · Kingdom Animalia · Adaptations as Outcomes of Structural Change · Scientific Naming — The Binomial System · Fossils as Evidence · Biodiversity Under Threat

03 Earth as a System: Energy, Matter, and Life

NCERT Ch. 13

Uneven Heating of the Earth · Interaction of Solar Radiation on the Earth's Surface · Latitude and Earth's Shape · Role of the Atmosphere · Uneven Heating Causes Wind and Ocean Currents · Local Winds · Planetary Winds · Ocean Currents · Biogeochemical Cycles · Water Cycle · Carbon Cycle · Nitrogen Cycle · Oxygen Cycle · Human Impact on Earth's Processes

04 **Cell: The Building Block of Life** NCERT Ch. 2
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Why Are Plant and Animal Tissues Different? · Tissues for Growth in Plants · Apical Meristem · Lateral Meristem · Intercalary Meristem · Permanent Tissues · Animal Tissues · Epithelial Tissues — Structure and Functions · How Are Various Parts Connected in Our Body? · Can We Control Movement in Our Body? · How Does the Body Sense, Communicate and Respond? · The Musculoskeletal System · Types of Joints · Skeletal System

MATHEMATICS
15 chapters

01 **Coordinate Geometry** NCERT Ch. 1
The 2-D Cartesian Coordinate System · Distance Between Two Points in the 2-D Plane

02 **Polynomials** NCERT Ch. 2
Linear Polynomials · Exploring Linear Patterns · Linear Growth and Linear Decay · Linear Relationships · Visualising Linear Relationships

03 **Number System** NCERT Ch. 3
The Dawn of Mathematics: The Human Need to Count · The Revolution of Śhūnya: When Nothing Became Something · Integers: Expanding the Horizon · Filling the Spaces: Fractions and Rational Numbers · Representation of Rational Numbers on the Number Line · The Density of Rational Numbers · Irrational Numbers · The Proof of Irrationality of $\sqrt{2}$ · Construction of Length $\sqrt{n}$ · Real Numbers: Decimals and Cyclic Patterns · Rational Decimals: Terminating and Repeating · The Magic of Cyclic Numbers · Irrational Decimals: Chaos and Infinity

04 **Euclid's Geometry** NCERT Ch. 5 (previous edition)
Euclid's Definitions, Axioms and Postulates

05 **Lines and Angles** NCERT Ch. 6 (previous edition)
Basic Terms and Definitions · Intersecting Lines and Non-intersecting Lines · Pairs of Angles · Lines Parallel to the Same Line

06 **Sequence and Progression** NCERT Ch. 8
Introduction to Sequences · Explicit Rule for a Sequence · Recursive Rule for a Sequence · Arithmetic Progressions · Visualising an AP · Sum of the First n Natural Numbers · Geometric Progressions · Fun with Fractals · Visualising a GP

07 **Triangles** NCERT Ch. 7 (previous edition)
Congruence of Triangles · Criteria for Congruence of Triangles · Some Properties of a Triangle · Some More Criteria for Congruence of Triangles

08 **Mensuration: Area and Perimeter** NCERT Ch. 6
Perimeter of a Shape · Perimeter of a Circle — The C/D Ratio · π Is Irrational · Length of an Arc of a Circle · Problems, Puzzles, and Paradoxes on Perimeter · Area of a Rectangle · Area of a Parallelogram · Area of a Triangle · Heron's Formula · Squaring a Rectangle · Area of a Circle · Area of Sector of a Circle

09 **Exploring Algebraic Identities** NCERT Ch. 4
Visualising Identities · Factorisation of Algebraic Expressions Using Identities · More Identities · Factorisation Using Algebra Tiles · Factorisation Without Using Algebra Tiles · Finding New Identities · Simplifying Rational Expressions

10 **Probability** NCERT Ch. 7
What Is Probability? · What Is Randomness? · The Probability Scale · Measuring Probability Objectively · Experimental Probability: Performing Observations or Experiments · Theoretical Probability · Analysing Statistical Data Using Probability · Elements of Probability: Sample Spaces and Events · Sample Space · Events · Tree Diagrams

11 **Quadrilaterals** NCERT Ch. 12
What Exactly Is a Quadrilateral? · Parallelograms · Applications of Parallelograms · An Important Property of Triangles · A Surprising Property of Medians · Tiling the Plane Using Any 4-Gon

12 **Areas of Parallelograms and Triangles** NCERT Ch. 9 (previous edition)
Figures on the Same Base and Between the Same Parallels · Parallelograms on the Same Base and Between the Same Parallels · Triangles on the Same Base and Between the Same Parallels

13 **Mensuration: Surface Area and Volume** NCERT Ch. 14
Cuboids and Cubes · Right Circular Cylinder · Cones · Pyramidal Shapes · Spheres and Hemispheres · Hemisphere · Areas and Volumes Around Us · Guesstimates: Did You Ever Wonder?

14 **Linear Equations in Two Variables** NCERT Ch. 13
Linear Equations in Two Variables · Standard Form of Linear Equations in Two Variables · Solution of Linear Equation in Two Variables · Algebraic Meaning of Solution · Geometric Visualisation of Solutions · Slope-Intercept Form of a Linear Equation in Two Variables · Understanding Slope · Slope-Intercept Form · Pair of Linear Equations in Two Variables · Finding Solutions to a Pair of Linear Equations · Algebraic Methods for Solving a Pair of Linear Equations · Graphical Method for Solving a Pair of Linear Equations

◯	15	**Circles**	NCERT Ch. 5
		Definitions · Symmetries of a Circle · How Many Circles? · Chords and the Angles They Subtend · Midpoints and Perpendicular Bisectors of Chords · Distance of Chords from the Centre · Which of the Two Unequal Chords Is Farther from the Centre? · Angles Subtended by an Arc · Angle Subtended by an Arc at a Point on the Circle Outside the Arc · Concyclicity of Points	

Topics follow the latest NCERT textbooks for Class IX: Exploration (Science, first edition April 2026) and Ganita Manjari (Mathematics, Parts I and II, 2026). Euclid's Geometry, Lines and Angles, Triangles and Areas of Parallelograms and Triangles are no longer in the new Mathematics book; their topics are from the previous NCERT edition.