ZEST 2026 · SYLLABUS

Class 10th

Science · Mathematics

ZEST
Zigyan Entrance cum Scholarship Test

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

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

PART 1 HALF SYLLABUS TEST

Tests before 15 November

PHYSICS

3 chapters

01 Light – Reflection and Refraction — NCERT Ch. 9

Reflection of Light · Spherical Mirrors · Image Formation by Spherical Mirrors · Sign Convention for Reflection by Spherical Mirrors · Mirror Formula and Magnification · Refraction of Light · Refraction through a Rectangular Glass Slab · The Refractive Index · Refraction by Spherical Lenses · Image Formation by Lenses · Image Formation in Lenses Using Ray Diagrams · Sign Convention for Spherical Lenses · Lens Formula and Magnification · Power of a Lens

02 The Human Eye and the Colourful World — NCERT Ch. 10

The Human Eye · Power of Accommodation · Defects of Vision and Their Correction · Refraction of Light through a Prism · Dispersion of White Light by a Glass Prism · Atmospheric Refraction · Scattering of Light · Tyndall Effect · Why Is the Colour of the Clear Sky Blue?

03 Electricity — NCERT Ch. 11

Electric Current and Circuit · Electric Potential and Potential Difference · Circuit Diagram · Ohm's Law · Factors on Which the Resistance of a Conductor Depends · Resistance of a System of Resistors · Resistors in Series · Resistors in Parallel · Heating Effect of Electric Current · Practical Applications of Heating Effect of Electric Current · Electric Power

CHEMISTRY

2 chapters

01 Chemical Reactions and Equations — NCERT Ch. 1

Chemical Equations · Writing a Chemical Equation · Balanced Chemical Equations · Types of Chemical Reactions · Combination Reaction · Decomposition Reaction · Displacement Reaction · Double Displacement Reaction · Oxidation and Reduction · Have You Observed the Effects of Oxidation Reactions in Everyday Life? · Rancidity

02 Acids, Bases and Salts — NCERT Ch. 2

Understanding the Chemical Properties of Acids and Bases · How Do Acids and Bases React with Metals? · How Do Metal Carbonates and Metal Hydrogencarbonates React with Acids? · How Do Acids and Bases React with Each Other? · Reaction of Metallic Oxides with Acids · Reaction of a Non-metallic Oxide with Base · What Do All Acids and All Bases Have in Common? · What Happens to an Acid or a Base in a Water Solution? · How Strong Are Acid or Base Solutions? · Importance of pH in Everyday Life · More About Salts · pH of Salts · Chemicals from Common Salt · Are the Crystals of Salts Really Dry?

BIOLOGY

2 chapters

01 Life Processes — NCERT Ch. 5

What Are Life Processes? · Nutrition · Autotrophic Nutrition · Heterotrophic Nutrition · How Do Organisms Obtain Their Nutrition? · Nutrition in Human Beings · Respiration · Transportation · Transportation in Human Beings · Transportation in Plants · Excretion · Excretion in Human Beings · Excretion in Plants

02 Control and Coordination — NCERT Ch. 6

Animals – Nervous System · What Happens in Reflex Actions? · Human Brain · How Are These Tissues Protected? · How Does the Nervous Tissue Cause Action? · Coordination in Plants · Immediate Response to Stimulus · Movement Due to Growth · Hormones in Animals

MATHEMATICS

7 chapters

∞	01	**Real Numbers** The Fundamental Theorem of Arithmetic · Revisiting Irrational Numbers	NCERT Ch. 1
Σ	02	**Polynomials** Geometrical Meaning of the Zeroes of a Polynomial · Relationship between Zeroes and Coefficients of a Polynomial	NCERT Ch. 2
x^2	03	**Quadratic Equations** Quadratic Equations · Solution of a Quadratic Equation by Factorisation · Nature of Roots	NCERT Ch. 4
1 2	04	**Arithmetic Progression** Arithmetic Progressions · nth Term of an AP · Sum of First n Terms of an AP	NCERT Ch. 5
◿	05	**Trigonometric Ratios** Trigonometric Ratios · Trigonometric Ratios of Some Specific Angles · Trigonometric Ratios of 45° · Trigonometric Ratios of 30° and 60° · Trigonometric Ratios of 0° and 90°	NCERT Ch. 8
⛰	06	**Heights and Distances** Heights and Distances	NCERT Ch. 9
△	07	**Triangles** Similar Figures · Similarity of Triangles · Criteria for Similarity of Triangles · Heron's Formula	NCERT Ch. 6

PART 2 FULL SYLLABUS TEST

Tests after 15 November

PHYSICS

4 chapters

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NCERT Ch. 11

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04 Magnetic Effects of Electric Current

NCERT Ch. 12

Magnetic Field and Field Lines · Magnetic Field due to a Current-Carrying Conductor · Magnetic Field due to a Current through a Straight Conductor · Right-Hand Thumb Rule · Magnetic Field due to a Current through a Circular Loop · Magnetic Field due to a Current in a Solenoid · Force on a Current-Carrying Conductor in a Magnetic Field · Domestic Electric Circuits

CHEMISTRY

4 chapters

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NCERT Ch. 2

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03 Metals and Non-metals

NCERT Ch. 3

Physical Properties · Chemical Properties of Metals · What Happens when Metals React with Water? · What Happens when Metals React with Acids? · The Reactivity Series · How Do Metals and Non-metals React? · Properties of Ionic Compounds · Occurrence of Metals · Extracting Metals Low in the Activity Series · Extracting Metals in the Middle of the Activity Series · Extracting Metals towards the Top of the Activity Series · Refining of Metals · Corrosion · Prevention of Corrosion

04 Carbon and its Compounds

NCERT Ch. 4

Bonding in Carbon – The Covalent Bond · Versatile Nature of Carbon · Saturated and Unsaturated Carbon Compounds · Chains, Branches and Rings · Homologous Series · Nomenclature of Carbon Compounds · Chemical Properties of Carbon Compounds · Combustion · Addition Reaction · Substitution Reaction · Some Important Carbon Compounds – Ethanol and Ethanoic Acid · Properties of Ethanol · Properties of Ethanoic Acid · Soaps and Detergents

BIOLOGY

5 chapters

01 Life Processes

NCERT Ch. 5

What Are Life Processes? · Nutrition · Autotrophic Nutrition · Heterotrophic Nutrition · How Do Organisms Obtain Their Nutrition? · Nutrition in Human Beings · Respiration · Transportation · Transportation in Human Beings · Transportation in Plants · Excretion · Excretion in Human Beings · Excretion in Plants

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	03	**How do Organisms Reproduce?** Do Organisms Create Exact Copies of Themselves? · Modes of Reproduction Used by Single Organisms · Fission · Fragmentation · Regeneration · Budding · Vegetative Propagation · Spore Formation · Sexual Reproduction · Sexual Reproduction in Flowering Plants · Reproduction in Human Beings · Male Reproductive System · Female Reproductive System · Reproductive Health	NCERT Ch. 7
	04	**Heredity** Accumulation of Variation during Reproduction · Heredity · Inherited Traits · Rules for the Inheritance of Traits – Mendel's Contributions · How Do These Traits Get Expressed? · Sex Determination	NCERT Ch. 8
	05	**Our Environment** Eco-system — What Are Its Components? · Food Chains and Webs · How Do Our Activities Affect the Environment? · Ozone Layer and How It Is Getting Depleted · Managing the Garbage We Produce	NCERT Ch. 13

MATHEMATICS

15 chapters

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=	03	**Pair of Linear Equations in Two Variables** Graphical Method of Solution of a Pair of Linear Equations · Algebraic Methods of Solving a Pair of Linear Equations · Substitution Method · Elimination Method	NCERT Ch. 3
x^2	04	**Quadratic Equations** Quadratic Equations · Solution of a Quadratic Equation by Factorisation · Nature of Roots	NCERT Ch. 4
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	07	**Heights and Distances** Heights and Distances	NCERT Ch. 9
π	08	**Trigonometric Identities** Trigonometric Identities	NCERT Ch. 8
	09	**Coordinate Geometry** Distance Formula · Section Formula	NCERT Ch. 7
	10	**Statistics** Mean of Grouped Data · Mode of Grouped Data · Median of Grouped Data	NCERT Ch. 13
	11	**Probability** Probability — A Theoretical Approach	NCERT Ch. 14
	12	**Triangles** Similar Figures · Similarity of Triangles · Criteria for Similarity of Triangles · Heron's Formula	NCERT Ch. 6
	13	**Circles and Tangents** Tangent to a Circle · Number of Tangents from a Point on a Circle	NCERT Ch. 10
	14	**Areas Related to Circles** Areas of Sector and Segment of a Circle	NCERT Ch. 11
	15	**Surface Areas and Volumes** Surface Area of a Combination of Solids · Volume of a Combination of Solids	NCERT Ch. 12

Topics follow the latest NCERT textbooks for Class X: Science and Mathematics (rationalised editions, reprint 2026-27).