

Mathematics

Course	Subject	Chapter Name	Concept Name
13+ Exam	Maths	Number System	Place Value in Whole Numbers
13+ Exam	Maths	Number System	Ordering Integers
13+ Exam	Maths	Number System	Rational Numbers -Compare and Order
13+ Exam	Maths	Number System	Integers on Number Line - Compare and Order
13+ Exam	Maths	Number System	Rational Numbers on Number Line
13+ Exam	Maths	Number System	Order of Real Numbers
13+ Exam	Maths	Number System	Rounding and Estimation
13+ Exam	Maths	Factors and Multiples	Find Factors and Multiples of Whole Numbers
13+ Exam	Maths	Factors and Multiples	LCM & GCF
13+ Exam	Maths	Factors and Multiples	Prime and Composite Numbers
13+ Exam	Maths	Factors and Multiples	Prime Factorization
13+ Exam	Maths	Fractions, Decimals and Percentages	PEMDAS Rule
13+ Exam	Maths	Fractions, Decimals and Percentages	Operations on Decimals
13+ Exam	Maths	Fractions, Decimals and Percentages	Operations on Fractions
13+ Exam	Maths	Fractions, Decimals and Percentages	Division and Reciprocals
13+ Exam	Maths	Fractions, Decimals and Percentages	Fractions & Mixed Fractions - Changing, Multiplication, Division
13+ Exam	Maths	Fractions, Decimals and Percentages	Decimal to Mixed Numbers
13+ Exam	Maths	Fractions, Decimals and Percentages	Rounding of Decimals
13+ Exam	Maths	Fractions, Decimals and Percentages	Conversion for Percent to Fraction and Percent to Decimal
13+ Exam	Maths	Fractions, Decimals and Percentages	Percent Greater Than 100
13+ Exam	Maths	Roots and Powers	Square and Square Root
13+ Exam	Maths	Roots and Powers	Cube and Cube Root
13+ Exam	Maths	Roots and Powers	Exponents with Decimal Bases
13+ Exam	Maths	Roots and Powers	Order of Operations - Exponents
13+ Exam	Maths	British System of Measurement & Conversion	Metric System and Measurement of Mass, Distance and Time
13+ Exam	Maths	British System of Measurement & Conversion	Calculation of Elapsed Time & Conversion of Time
13+ Exam	Maths	British System of Measurement & Conversion	Money
13+ Exam	Maths	British System of Measurement & Conversion	Calculate Average Speed
13+ Exam	Maths	British System of Measurement & Conversion	Measurement of Density
13+ Exam	Maths	Algebraic Expressions and Equations	What is Expression & Equation? Basic Terminology
13+ Exam	Maths	Algebraic Expressions and Equations	Simplifying Algebraic Expressions and Equations
13+ Exam	Maths	Algebraic Expressions and Equations	Solving Equations in Different Methods

Course	Subject	Chapter Name	Concept Name
13+ Exam	Maths	Algebraic Expressions and Equations	Standard form of Equations
13+ Exam	Maths	Algebraic Expressions and Equations	GCF of Algebraic Expressions
13+ Exam	Maths	Algebraic Expressions and Equations	Dividing Radical Expressions
13+ Exam	Maths	Linear Equations and Sequences	Linear Equations - Standard Form and Graphical Representation
13+ Exam	Maths	Linear Equations and Sequences	Solving Linear Equations - Different Methods
13+ Exam	Maths	Linear Equations and Sequences	Parallel Line and Perpendicular Lines in Linear Equation
13+ Exam	Maths	Linear Equations and Sequences	System of Equations
13+ Exam	Maths	Linear Equations and Sequences	Quadratic and Linear Function - Comparing with Graphs
13+ Exam	Maths	Linear Equations and Sequences	Sequence and Arithmetic Series
13+ Exam	Maths	Linear Equations and Sequences	Sum of 'n' Terms in Arithmetic Series
13+ Exam	Maths	Ratio and Proportion	Scale Factor, Common Ratio and Equivalent Ratio
13+ Exam	Maths	Ratio and Proportion	Ratio and Proportion - Calculations
13+ Exam	Maths	Ratio and Proportion	Increase and Decrease in Percentage
13+ Exam	Maths	Ratio and Proportion	Directly Proportional and Inversely Proportional
13+ Exam	Maths	Ratio and Proportion	Unit Rates and Unit Prices
13+ Exam	Maths	Geometric Shapes	Triangles, Types of Triangles by Sides and Angles
13+ Exam	Maths	Geometric Shapes	Perimeter and Area of Square and Rectangle
13+ Exam	Maths	Geometric Shapes	Perimeter and Area of Triangle
13+ Exam	Maths	Geometric Shapes	Quadrilateral and Types of Quadrilaterals
13+ Exam	Maths	Geometric Shapes	Area of Parallelogram and Trapezoid
13+ Exam	Maths	Geometric Shapes	Polygons
13+ Exam	Maths	Geometric Shapes	Circles - Circumference and Area
13+ Exam	Maths	Geometric Shapes	Volume of Cube and Cuboid
13+ Exam	Maths	Geometric Shapes	Volume of Pyramids, Prisms, Cones, and Cylinders
13+ Exam	Maths	Geometric Shapes	Surface Area of 3D shapes
13+ Exam	Maths	Geometric Shapes	2-D Paper nets of 3-D Shapes
13+ Exam	Maths	Lines, Angles and Polygons	Points, Lines, Line Segments and Rays
13+ Exam	Maths	Lines, Angles and Polygons	Mid-Point Theorem and Bisection Theorem
13+ Exam	Maths	Lines, Angles and Polygons	Parallel, Perpendicular and Transverse Lines
13+ Exam	Maths	Lines, Angles and Polygons	Similar Polygons
13+ Exam	Maths	Geometry	Reflection, Rotation and Translation
13+ Exam	Maths	Geometry	Opposite Angles, Corresponding Angles
13+ Exam	Maths	Geometry	Congruence of Triangles - SAS, ASA, SSS
13+ Exam	Maths	Geometry	Pythagoras Theorem
13+ Exam	Maths	Probability	Dependent and Independent Events
13+ Exam	Maths	Probability	Experimental Probability
13+ Exam	Maths	Probability	Probability of Compound Events

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13+ Exam	Maths	Probability	Exclusive Events - Mutually and Non-mutually
13+ Exam	Maths	Probability	Set Theory and Venn Diagrams
13+ Exam	Maths	Probability	Permutation and Combination
13+ Exam	Maths	Data Interpretation	Discrete and Continuous Data
13+ Exam	Maths	Data Interpretation	Mean, Median, Mode, and Range
13+ Exam	Maths	Data Interpretation	Maximums, Minimums and Outliers
13+ Exam	Maths	Data Interpretation	Frequency Distribution Tables
13+ Exam	Maths	Data Interpretation	Bar Graphs and Pie Charts
13+ Exam	Maths	Data Interpretation	Pictographs
13+ Exam	Maths	Data Interpretation	Scatter Plots
13+ Exam	Maths	Data Interpretation	Bivariate Data

English

Course	Subject	Chapter Name	Concept Name
13+ Exam	English	Reading	Gist of an Essay and Reading Comprehension
13+ Exam	English	Reading	Analyse a Passage - Literature
13+ Exam	English	Reading	Drawing Inference - Fiction
13+ Exam	English	Reading	Specific Details in Reading
13+ Exam	English	Reading	Author's Purpose
13+ Exam	English	Reading	Author's Style - Language and Voice
13+ Exam	English	Reading	Tone and Mood in Reading a Passage
13+ Exam	English	Reading	Comparing and contrasting
13+ Exam	English	Writing	Analyse Themes, Textual Evidence to Support Analysis
13+ Exam	English	Writing	Grammar, Syntax, & Punctuation affect on literary meaning
13+ Exam	English	Writing	Literary Criticism
13+ Exam	English	Writing	Figurative Language in Fiction
13+ Exam	English	Writing	Use of Context to Determine the Meaning
13+ Exam	English	Poetry	Approaches to Read Poetry
13+ Exam	English	Poetry	Poem - Main Idea and Theme
13+ Exam	English	Poetry	Analyse Emotion in Poetry
13+ Exam	English	Poetry	Metaphor
13+ Exam	English	Poetry	Personification and Apostrophe
13+ Exam	English	Poetry	Imagery, Symbolism and Juxtaposition
13+ Exam	English	Poetry	Types of Irony
13+ Exam	English	Poetry	Alliteration
13+ Exam	English	Poetry	Poems with Assonance
13+ Exam	English	Poetry	Onomatopoeia in Literature
13+ Exam	English	Poetry	Thyme Structure
13+ Exam	English	Poetry	Importance of Rhythm in Poetry
13+ Exam	English	Writing	Essay Writing - Argumentative
13+ Exam	English	Writing	Essay Writing - Persuasive

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13+ Exam	English	Writing	Essay Writing - Informative
13+ Exam	English	Writing	Essay Writing - Expository
13+ Exam	English	Writing	Writing a Short Story
13+ Exam	English	Writing	Descriptive Essay
13+ Exam	English	Writing	Narrative Essay
13+ Exam	English	Writing	Write a Literary Analysis
13+ Exam	English	Writing	Syntax in Writing
13+ Exam	English	Writing	Choice of Words and Language to Set the Tone of Essay
13+ Exam	English	Writing	Use of Precise Language in Writing
13+ Exam	English	Writing	Support Your Claims with Reasoning and Evidence
13+ Exam	English	Writing	Structure of Paragraphs in Essay
13+ Exam	English	Writing	Structure of Sentences in Essay
13+ Exam	English	Writing	Write and Identify Parallel Sentences
13+ Exam	English	Writing	Transitions - Shifts, Sequence and Relationships
13+ Exam	English	Writing	Organize Writing - Task, Purpose, and Audience
13+ Exam	English	Writing	How to Fix Mistakes in Your Writing
13+ Exam	English	Punctuation and Spelling	Capitalization Rules
13+ Exam	English	Punctuation and Spelling	Colons, Semicolons and Periods
13+ Exam	English	Punctuation and Spelling	Commas and Apostrophe
13+ Exam	English	Punctuation and Spelling	Correct Spelling - Strategies and Tips
13+ Exam	English	Punctuation and Spelling	Commonly Confused Words

Science

Course	Subject	Chapter Name	Concept Name
13+ Exam	Biology	Cells and Organisation	Fundamental unit of living organisms
13+ Exam	Biology	Cells and Organisation	Plant and animal cells
13+ Exam	Biology	Cells and Organisation	Role of diffusion
13+ Exam	Biology	Cells and Organisation	Unicellular organisms
13+ Exam	Biology	Nutrition and Digestion	Healthy human diet
13+ Exam	Biology	Nutrition and Digestion	Deficiency diseases
13+ Exam	Biology	Gas Exchange Systems	Gas exchange systems in humans
13+ Exam	Biology	Gas Exchange Systems	Mechanism of breathing
13+ Exam	Biology	Reproduction in Animals	Reproduction in humans
13+ Exam	Biology	Reproduction in Animals	Gestation and birth
13+ Exam	Biology	Reproduction in Animals	Physical and emotional changes
13+ Exam	Biology	Reproduction in Plants	Structure of flower
13+ Exam	Biology	Reproduction in Plants	Pollination
13+ Exam	Biology	Reproduction in Plants	Seed dispersal

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13+ Exam	Biology	Health	Effects of recreational drugs
13+ Exam	Biology	Photosynthesis	Photosynthesis process
13+ Exam	Biology	Photosynthesis	Applications of photosynthesis
13+ Exam	Biology	Photosynthesis	Gas exchange in plants
13+ Exam	Biology	Photosynthesis	Transportation in plants
13+ Exam	Biology	Cellular Respiration	Aerobic respiration
13+ Exam	Biology	Cellular Respiration	Anaerobic respiration
13+ Exam	Biology	Cellular Respiration	Differences between aerobic and anaerobic respiration
13+ Exam	Biology	Cellular Respiration	Significance of photosynthesis and respiration
13+ Exam	Biology	Relationships in an Ecosystem	Interdependence of organisms
13+ Exam	Biology	Relationships in an Ecosystem	Importance of sustainable development
13+ Exam	Biology	Relationships in an Ecosystem	Predation and competition
13+ Exam	Biology	Variation, Classification, and Inheritance	Variation between individuals
13+ Exam	Biology	Variation, Classification, and Inheritance	Differences between species
13+ Exam	Biology	Variation, Classification, and Inheritance	Taxonomic groups
13+ Exam	Chemistry	The Particulate Nature of Matter	Properties of the different states of matter
13+ Exam	Chemistry	The Particulate Nature of Matter	Brownian Motion
13+ Exam	Chemistry	The Particulate Nature of Matter	Changes of state in terms of the particle model
13+ Exam	Chemistry	Atoms, Elements and Compounds	Dalton atomic model
13+ Exam	Chemistry	Atoms, Elements and Compounds	Chemical symbols and formulae
13+ Exam	Chemistry	Atoms, Elements and Compounds	Atoms, elements, and compounds
13+ Exam	Chemistry	Atoms, Elements and Compounds	Properties of metals and non-metals
13+ Exam	Chemistry	Pure and Impure Substances; Physical Changes	Concept and identification of Pure substances
13+ Exam	Chemistry	Pure and Impure Substances; Physical Changes	Energy transfers
13+ Exam	Chemistry	Pure and Impure Substances; Physical Changes	Conservation of mass in physical reactions
13+ Exam	Chemistry	Pure and Impure Substances; Physical Changes	Mixtures
13+ Exam	Chemistry	Pure and Impure Substances; Physical Changes	Composition of the atmosphere
13+ Exam	Chemistry	Pure and Impure Substances; Physical Changes	Techniques for separating mixtures
13+ Exam	Chemistry	Pure and Impure Substances; Physical Changes	Solubility
13+ Exam	Chemistry	Chemical Reactions	Conservation of mass in chemical reactions
13+ Exam	Chemistry	Chemical Reactions	Combustion reactions
13+ Exam	Chemistry	Chemical Reactions	Production and impact of CO ₂
13+ Exam	Chemistry	Chemical Reactions	Decomposition reactions
13+ Exam	Chemistry	Chemical Reactions	Oxidation and reduction reactions
13+ Exam	Chemistry	Chemical Reactions	Reactivity series
13+ Exam	Chemistry	Chemical Reactions	Use of carbon
13+ Exam	Chemistry	Chemical Reactions	Acids and alkalis
13+ Exam	Chemistry	Chemical Reactions	pH scale

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13+ Exam	Chemistry	Chemical Reactions	Chemical properties of metal and nonmetal oxides
13+ Exam	Chemistry	Chemical Reactions	Effect of acidity on the environment
13+ Exam	Physics	Energy Resources	Renewable and non-renewable resources
13+ Exam	Physics	Energy Resources	Sun is the ultimate source
13+ Exam	Physics	Energy Resources	Generation of electricity
13+ Exam	Physics	Changes in Systems	Energy as a quantity
13+ Exam	Physics	Changes in Systems	Transfer of energy
13+ Exam	Physics	Conservation of Energy	Conservation of energy
13+ Exam	Physics	Describing Motion	Scientific units
13+ Exam	Physics	Describing Motion	Speed of a moving object
13+ Exam	Physics	Describing Motion	Forces as pushes or pulls
13+ Exam	Physics	Describing Motion	Cause of motion
13+ Exam	Physics	Describing Motion	Balanced and unbalanced forces
13+ Exam	Physics	Describing Motion	Opposing forces and equilibrium
13+ Exam	Physics	Describing Motion	Springs, extension linear relation, Hooke's Law
13+ Exam	Physics	Describing Motion	Friction
13+ Exam	Physics	Force and Rotation	Turning forces
13+ Exam	Physics	Force and Rotation	Simple machines
13+ Exam	Physics	Force and Rotation	Moment as the turning effect
13+ Exam	Physics	Force and Rotation	Principle of moments
13+ Exam	Physics	Force and Pressure	Introduction to pressure
13+ Exam	Physics	Force and Pressure	Relationship between force, area and pressure
13+ Exam	Physics	Density	Density and its measurement
13+ Exam	Physics	Sound Waves	Sound needs a medium to travel
13+ Exam	Physics	Sound Waves	Loudness and amplitude
13+ Exam	Physics	Hearing	How do humans hear?
13+ Exam	Physics	Hearing	Auditory range
13+ Exam	Physics	Hearing	Effects of loud sounds
13+ Exam	Physics	Hearing	Pitch and frequency
13+ Exam	Physics	Light Waves	How light travels?
13+ Exam	Physics	Light Waves	Comparing sound wave and light wave
13+ Exam	Physics	Light Waves	Scattering of light
13+ Exam	Physics	Light Waves	Reflection of light
13+ Exam	Physics	Light Waves	Refraction of light
13+ Exam	Physics	Light Waves	Transmission of light
13+ Exam	Physics	Light Waves	Dispersion of white light
13+ Exam	Physics	Circuits	Construct series and parallel circuits
13+ Exam	Physics	Circuits	How to measure current?
13+ Exam	Physics	Circuits	Transfer of energy from batteries
13+ Exam	Physics	Magnetism	Magnetic field
13+ Exam	Physics	Magnetism	Like and unlike poles
13+ Exam	Physics	Magnetism	Earth's magnetism
13+ Exam	Physics	Electromagnets	Magnetic field in current in a coil
13+ Exam	Physics	Electromagnets	Construction of electromagnet
13+ Exam	Physics	Electromagnets	Applications of electromagnets

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13+ Exam	Physics	Space Physics	Movement of the Sun and other stars
13+ Exam	Physics	Space Physics	Seasons
13+ Exam	Physics	Space Physics	Earth's tilt
13+ Exam	Physics	Space Physics	Relative Positions of the Earth, Sun, and Planets
13+ Exam	Physics	Space Physics	Light year
13+ Exam	Physics	Space Physics	Gravity on earth and in space
13+ Exam	Physics	Space Physics	Movements of planets round the Sun
13+ Exam	Physics	Space Physics	Sources and reflectors of light in solar system
13+ Exam	Physics	Space Physics	Artificial satellites and probes