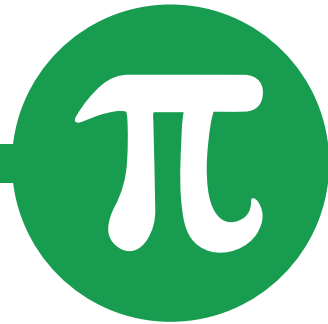


STUDY PLAN





e-Mathematics



Mathematics

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Chapters	Grade
Chapter 1: Two-Dimensional Figures and Patterns - Identifying numbers and quantities - Analyzing attributes - Identifying patterns Chapter 2: Number Lines and Time - Comparing numbers - Understanding addition and subtraction - Measuring time Chapter 3: Skip-Counting and Money - Relating pennies and nickels - Developing counting strategies - Making amounts in different ways - Representing coins Chapter 4: Exploring Addition and Subtraction - Sorting and combining in any order - Developing addition and subtraction strategies	Grade 1
Chapter 5: Working with Tens - Making tens and ones - Representing a two-digit number using dimes and pennies - Telling time - Working with multiples of ten Chapter 6: Data and Probability - Collecting and organizing data - Displaying and interpreting data - Describing likelihood Chapter 7: Working with Larger Numbers - Identifying patterns and rules - Understanding larger numbers - Introducing the quarter - Finding the values of collections of coins Chapter 8: Doubling, Halving, and Fractions - Doubling and halving as processes - Doubling and halving collections of coins - Understanding fractions as quantities	

First Term

Second Term



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Mathematics

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Chapters	Grade
Chapter 9: Modeling Addition and Subtraction - Modeling and recording addition sentences - Applying addition and subtraction rules - Relating addition and subtraction Chapter 10: Maps, Grids, and Geometric Figures - Exploring lines and paths - Creating two-dimensional spaces - Exploring two- and three-dimensional figures Chapter 11: Comparing Numbers, Temperatures, and Weights - Comparing numbers - Adding or subtracting equal amounts from both sides of a sentence - Using and understanding weight Chapter 12: Length, Area, and Capacity - Measuring to quantify comparisons - Using units as cultural conventions - Relating the size of a unit to the number of units	Grade 1
Chapter 13: Making and Breaking Numbers - Making and breaking numbers - Finding sums to 20 Chapter 14: Extending Addition and Subtraction - Using strategies to add and subtract - Representing number sentences from many situations Chapter 15: Exploring Rules and Patterns - Exploring a variety of rules - Identifying inputs and outputs - Undoing rules	

Third Term

Fourth Term



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Mathematics

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Chapters	Grade
Chapter 1: Counting Strategies • Using number lines • Adding and subtracting • Previewing multiplication Chapter 2: Working with 10 • Comparing numbers • Understanding the relationships between numbers Chapter 3: Place Value • Bundling • Preparing to add • Recording Chapter 4: Addition and Subtraction with Place Value • Representing numbers and regrouping • Exploring addition and subtraction • Working with money	First Term
Chapter 5: Probability and Data • Exploring Probability • Making and using real-object and picture graphs • Making and using bar graphs • Making and using pictographs • Making and using line graphs Chapter 6: Measuring Time • Working with units of time • Using time as a context for solving problems Chapter 7: Doubling, Halving, and Fractions • Having and doubling • Understanding fractions as parts of a whole Chapter 8: Building Addition and Subtraction Fluency • Understanding addition and subtraction as inverse operations • Composing and decomposing numbers	Second Term



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Mathematics

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Chapters	Grade
Chapter 9: Two-Dimensional Figures and Spatial Sense - Identifying and classifying two-dimensional figures - Exploring congruence, similarity, and symmetry - Measuring area and describing paths on a grid Chapter 10: Adding and Subtracting Larger Numbers - Adding and subtracting with “like” sets - Composing and decomposing numbers Chapter 11: Skip-Counting and Equivalent Sets - Using repeated addition - Working with arrays - Introducing division Chapter 12: Measuring Length - Using units of measure - Estimating and measuring Chapter 13: Exploring Multiplication and Division - Exploring multiplication - Exploring division - Relating multiplication and division	Third Term
Chapter 14: Comparing and Contrasting Three-Dimensional Figures - Identifying figures - Classifying figures by attributes Chapter 15: Capacity, Weight/Mass, and Temperature - Measuring capacity - Exploring weight and mass - Measuring temperature Chapter 16: Multiplying and Dividing - Working with multiplication tables - Relating multiplication and division	Fourth Term Grade 2



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Chapters	Grade
Chapter 1: Building Operations - Working with addition, subtraction, and fact families - Skip-counting and number patterns Chapter 2: Multiplication Situations - Using visual models to understand multiplication Chapter 3: Using Addition and Subtraction - Building computational fluency and accuracy - Reasoning about addition and subtraction problems - Regrouping - Estimating Chapter 4: Grouping, Regrouping, and Place Value - Grouping measurement units - Place value	First Term
Chapter 5: Understanding Addition and Subtraction Algorithms - Rounding and estimating - Using mental computation - Place value Chapter 6: Rules and Patterns - Developing algebraic thinking - Graphs and tables Chapter 7: Fractions - Reasoning about fractions - Making equivalent fractions - Comparing fractions Chapter 8: Charts and Graphs - Collecting information - Decision-making about how to organize and display information	Second Term
	Grade 3



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Mathematics

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Chapters	Grade
Chapter 9: Exploring Multiplication - Supporting knowledge of multiplication facts - Partitioning rectangular arrays Chapter 10: Length, Area, and Volume - Distinguishing among different dimensions - Estimating measurements - Reasons for measurement - Considering area and perimeter together Chapter 11: Geometry - Two-dimensional geometry - Three-dimensional geometry Chapter 12: Multiplication Strategies - Partitioning arrays to multiply two-digit numbers - Relating multiplication and division	Grade 3
Chapter 13: Time, Temperature, Weight, and Capacity - Choosing an appropriate and/or unit - Reading measurement tools - Developing benchmark values Chapter 14: Addition and Subtraction in Depth - Expanded notation Chapter 15: Multiplication and Division - Properties of multiplication and division - Relating multiplication and division	

Third Term

Fourth Term



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Mathematics

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Chapters	Grade
Chapter 1: Magic Squares - Category: Operations and Algebraic Thinking - Solving mathematical puzzles - Practicing computational skills Chapter 2: Multiplication - Relating multiplication and addition - Decomposing and recomposing groups to facilitate multiplication - Relating multiplication and division Chapter 3: The Eraser Store - Regrouping - Place value and algorithms Chapter 4: Classifying Angles and Figures - Properties of angles - Ways to classify figures - Verifying congruency	First Term
Chapter 5: Area and Perimeter - Measuring area - Considering area and perimeter together Chapter 6: Multi-Digit Multiplication - Computation practice - Multi-digit multiplication strategies Chapter 7: Fractions - Making equivalent fractions - Comparing fractions Chapter 8: Decimals - Decimal notation - Reading decimal notation	Second Term
	Grade 4



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Mathematics

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Chapters	Grade
Chapter 9: Measurement • Reasons for measurement • Choosing units thoughtfully • Estimation and familiarity Chapter 10: Data and Probability • Finding out all possible outcomes • Probability experiments • Using data to generate probability Chapter 11: Three-Dimensional Geometry • Describing three-dimensional figures • Classifying figures • Measuring three-dimensional figures Chapter 12: Extending the Number line • Considering numbers less than zero • Describing locations on a plane	Grade 4
Chapter 13: Division • Relating multiplication and division • Building up to a missing factor Chapter 14: Algebraic Thinking • Working forward and backwards (“doing” and “undoing”) • Using shorthand notation • Making generalizations Chapter 15: Estimation • Developing estimation strategies • Using estimation in the context of measurement	

Third Term

Fourth Term



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Chapters	Grade
Chapter 1: Algebra: Machines and Puzzles. • Developing computational fluency through solving puzzles • Negative numbers • Functions stated as single-step and multi-step rules Chapter 2: Multiplication and Large Numbers • Revisiting the structure of the multiplication table • Using area models to model multiplication Chapter 3: Factoring and Prime Numbers • Factors, multiples, and divisibility • Prime and composite numbers Chapter 4: Equivalence and Comparison of Fractions • Fractions as actions • Fractions as numbers	First Term
Chapter 5: Recording Multi-Digit Multiplication • Understanding the systematic and efficient process of multiplying large numbers • Applying the process of multiplying large numbers Chapter 6: Grids and Graphs • Locating points in two-dimensional space • Using numbers to describe geometric transformations • Describing data Chapter 7: Decimals • Understanding decimal numbers • Relating decimals and fractions Chapter 8: Developing a Division Algorithm • Understanding the process of division • Interpreting remainders	Second Term

Grade 5



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Mathematics

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Chapters	Grade
Chapter 9: Attributes of Two-Dimensional Figures • Classifications • Importance of angles Chapter 10: Area and Perimeter • Finding perimeter • Finding area • Considering area and perimeter together Chapter 11: Fraction Computation • Adding and subtracting fractions with “like” and “unlike” denominators • Multiplying fractions • Contexts for fraction computation Chapter 12: Three-Dimensional Geometry • Describing three-dimensional figures • Classifying three-dimensional figures • Measuring three-dimensional figures	Grade 5
Chapter 13: Fun with Algebra • Algebraic notation as a language • Visual representations • Symbolic representations Chapter 14: Data and Probability • Probability experiments • Data collection, display, and interpretation Chapter 15: Graphing • Graphing relationships • Setting up and using the coordinate grid	

Third Term

Fourth Term



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Mathematics

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Chapters	Grade
Chapter 1: Working with whole numbers - Ordering and comparing whole numbers - Factors, prime numbers and common multiples - Properties of operations - Basic operations Chapter 2: Exponents - Quick squares and cubes - The exponential notation - Squares and cubes - The square root and the cube root - Comparing numbers in exponential form Chapter 3: Geometry of straight lines - Line segments, lines and rays - Parallel and perpendicular lines Chapter 4: Construction of geometric figures  - Angles revision - The degree: a unit for measuring angles - Using the protractor - Using a protractor to construct angles - Parallel and perpendicular lines Chapter 5: Geometry of 2D shapes  - Triangles, quadrilaterals, circles and others - Different types of triangles - Different types of quadrilaterals - Similar and congruent shapes	Grade 6
Chapter 6: Fractions - Measuring accurately with parts of a unit - Different parts in different colours - Combining fractions - Tenths and hundredths (percentages) - Thousandths, hundredths and tenths - Fraction of a fraction - Multiplying with fractions	

First Term



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Chapters	Grade
Chapter 7: The decimal notation for fractions • Other symbols for tenths and hundredths • Percentages and decimal fractions • Decimal measurements • Addition and subtraction with decimal fractions • Multiplication and decimal fractions • Division and decimal fractions Chapter 8: Relationships between variables  • Constant and variable quantities • Different ways to describe relationships Chapter 9: Perimeter and area of 2D shapes • Perimeter of polygons • Perimeter formulae • Area and square units • Area of squares and rectangles • Area of triangles Chapter 10: Surface area and volume of 3D objects  • Surface area of cubes and rectangular prisms • Volume of rectangular prisms and cubes • Converting between cubic units • Volume and capacity Chapter 11: Numeric and geometric patterns • Number patterns in sequences • Geometric patterns Chapter 12: Functions and relationships I • From counting to calculating • What to calculate and how • Input and output numbers Chapter 13: Algebraic expressions I • Describing and doing computations • Relationships represented in formulae	Grade 6

Second Term



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Mathematics

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Chapters	Grade
Chapter 14: Algebraic equations I • Solving by inspection • Solving by the trial and improvement method • Describing problem situations with equations Chapter 15: Graphs • Lines of symmetry • Original figures and their images • Reflecting figures • Rotating figures • Enlarging and reducing figures Chapter 16: Transformation geometry • Lines of symmetry • Original figures and their images • Translating figures • Reflecting figures • Rotating figures Chapter 17: Geometry of 3D objects • Classifying 3D objects • Prisms and pyramids • Describing, sorting and comparing 3D objects • Using nets to construct cubes and prisms	Grade 6
Chapter 18: Integers • The need for numbers called integers • Finding numbers that make statements true • Adding and subtracting integers Chapter 19: Numeric patterns • Investigating and extending numeric patterns • Making patterns from rules • Making patterns from expressions	

Third Term



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Chapters	Grade
Chapter 20: Functions and relationships II - Relationships between variables - Integers in the rules for relationships Chapter 21: Algebraic expressions II - Interpret rules to calculate values of a variable - Slightly different kinds of rules Chapter 22: Algebraic equations II - Describing problem situations - Analysing and interpreting equations - Solving and completing equations - Identifying variables and constants - Numerical values of expressions Chapter 23: Collect, organise and summarise data  - Collecting data - Organising data - Summarising data Chapter 24: Represent data  - Bar graphs and double bar graphs - Histograms - Pie charts Chapter 25: Interpret, analyse and report on data  - Interpreting and reporting on data - Identifying bias and misleading data Chapter 26: Probability - Possible and actual outcomes, and frequencies - Relative frequencies - More trials and relative frequencies	Grade 6

Fourth Term



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Chapters	Grade
Chapter 1: Whole numbers • Properties of whole numbers • Calculations with whole numbers • Multiples, factors and prime factors Chapter 2: Integers • What is beyond 0? • Adding and subtracting with integers. • Multiplying and dividing with integers • Squares, cubes and roots with integers Chapter 3: Exponents • Working with integers • Laws of exponents • Calculations • Squares, cubes and roots of rational numbers Chapter 4: Numeric and geometric patterns • The term–term relationship in a sequence • The position–term relationship in a sequence • Investigate and extend geometric patterns • Describe patterns in different ways Chapter 5: Functions and relationships  • Constant and variable quantities • Different ways to describe relationships • Algebraic symbols for variables and relationships Chapter 6: Algebraic expressions I • Algebraic language • Add and subtract like terms	Grade 7
Chapter 7: Algebraic equations I • Setting up equations • Solving equations by inspection	

First Term



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Chapters	Grade
Chapter 8: Algebraic expressions II - Expanding algebraic expressions - Simplifying algebraic expressions - Simplifying quotient expressions - Squares, cubes and roots of expressions Chapter 9: Algebraic equations II - Thinking forwards and backwards - Solving equations using the additive and multiplicative inverses. - Solving equations involving powers Chapter 10: Construction of geometric figures - Bisecting lines - Constructing perpendicular lines - Bisecting angles - Constructing and Properties of triangles - Constructing and Properties of quadrilaterals Chapter 11: Geometry of 2D shapes - Types of triangles - Unknown angles and sides of triangles - Types of quadrilaterals and their properties - Unknown angles and sides of quadrilaterals - Congruency Chapter 12: Geometry of straight lines - Angles on a straight line - Vertically opposite angles - Lines intersected by a transversal - Parallel lines intersected by a transversal Chapter 13: Common fractions - Algebraic expressions II - Algebraic equations II - Construction of geometric figures - Geometry of 2D shapes - Geometry of straight lines	Grade 7

Second Term



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Chapters	Grade
Chapter 14: Fractions in decimal notation • Equivalent forms • Ordering and comparing decimal fractions • Rounding off decimal fractions • Calculations with decimal fractions Chapter 15: The theorem of Pythagoras • The lengths of sides of right-angled triangles • Working with the theorem of Pythagoras • Finding the missing sides in right-angled triangles • Are the triangles right-angled? Chapter 16: Perimeter and area of 2D shapes • Perimeter of squares and rectangles • Area of polygons • Perimeter and Area of circles Chapter 17: Surface area and volume of 3D objects  • From 2D to 3D measurements • Surface area of 3D objects • Volume of 3D objects • Relationship between surface area and volume • Converting between cubic units Chapter 18: Collect, organise and summarise data • Collecting data • Organising data • Summarising data: measures of central tendency and dispersion. Chapter 19: Represent data  • Bar graphs and double bar graphs • Histograms • Pie charts • Broken-line graphs.	Grade 7

Third Term



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Chapters	Grade
Chapter 20: Interpret, analyse and report on data • Critically analysing how data is collected • Critically analysing how data is represented • Critically analysing summary statistics Chapter 21: Functions and relationships • Calculating output values • Different forms of representation • Completing more tables Chapter 22: Algebraic equation • Solving equations • Generating tables of ordered pairs Chapter 23: Graphs • What we can tell with graphs • More features of graphs • Drawing graphs Graphs Chapter 24: Transformation geometry • Transformations and coordinate systems • Translation on the coordinate system • Reflection on the coordinate system • Rotation on the coordinate system • Enlargements and reductions Chapter 25: Geometry of 3D objects • Revision: 3D objects • Nets and models of prisms and pyramids • Platonic solids Chapter 26: Probability • How often different things can happen • Probability	Grade 7

Fourth Term



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Mathematics

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Chapters	Grade
• Chapter 1: Whole numbers II • Calculations with whole numbers • Multiples and factors • Solving problems about ratio, rate and proportion • Solving problems in financial contexts • Chapter 2: Integers II • Which numbers are smaller than 0? • Adding and subtracting with integers • Multiplying and dividing with integers • Powers, roots and word problems • Chapter 3: Fractions • Equivalent fractions • Adding and subtracting fractions • Multiplying and dividing fractions • Equivalent forms • Chapter 4: The decimal notation for fractions  • Equivalent forms • Calculations with decimals • Solving problems • Decimals in algebraic expressions • Chapter 5: Exponents II • Integer exponents • Solving simple exponential equations • Scientific notation • Chapter 6: Patterns II  • Geometric patterns • More patterns • Different kinds of patterns in sequences • Formulae for sequences <i>First Term</i> • Chapter 7: Functions and relationships • Find output numbers for given input numbers • Different ways to represent the same relationship • Different representations of the same relationship	Grade 8



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Chapters	Grade
Chapter 8: Algebraic expressions • Properties of operations • Multiplication of algebraic expressions • Dividing polynomials by integers and monomials • Products and squares of binomials • Substitution into algebraic expressions Chapter 9: Equations • Solving equations by inspection • Solving equations using additive and multiplicative inverses • Solving equations by using the laws of exponents Chapter 10: Construction of geometric figures • Constructing perpendicular lines • Bisecting angles • Constructing special angles without a protractor • Angle bisectors in triangles • Diagonals of quadrilaterals • Angles in polygons Chapter 11: Geometry of 2D shapes  • Revision: Classification of triangles • Finding unknown angles in triangles • Quadrilaterals • Congruent triangles Chapter 12: Geometry of straight lines  • Angle relationships • Identify and name angles Chapter 13: Pythagoras' Theorem • Investigating the sides of a right-angled triangle • Checking for right-angled triangles • Finding missing sides • More practice using Pythagoras' Theorem	Grade 8

Second Term



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Mathematics

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Chapters	Grade
Chapter 14: Area and perimeter of 2D shapes II • Area and perimeter of squares and rectangles • Area and perimeter of composite figures • Converting between units • Area of other quadrilaterals • Doubling dimensions of a 2D shape Chapter 15: Functions  • From formulas to words, tables and graphs • Tables and graphs Chapter 16: Algebraic expressions II • Factors of expressions of the form $ab + ac$ • Factors of expressions of the form $x^2 + (b + c)x + bc$ • Factors of expressions of the form $a^2 - b^2$ • Simplification of algebraic fractions Chapter 17: Equations II • Solving by factorisation Part 1 • Solving by factorisation Part 2 • Solving by factorisation Part 3 • Set up equations to solve problems • Equations and ordered pairs. Chapter 18: Graphs II • Draw graphs from tables of ordered pairs • Gradient • Finding the formula for a graph • x- and y-intercepts • Graphs of non-linear functions	Grade 8
Chapter 19: Surface area, volume and capacity of 3D objects • Surface area • Volume • Capacity • Doubling dimensions and the effect on volume	

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Chapters	Grade
Chapter 20: Transformation geometry • Points on a coordinate system • Reflection (flip) • Translation (slide) • Enlargement (expansion) and reduction (shrinking) Chapter 21: Geometry of 3D objects II  • Classifying 3D objects • Nets and models of prisms and pyramids • Platonic solids • Euler's formula • Cylinders and Spheres Chapter 22: Collect, organise and summarise data  • Collecting data • Organising data • Summarising data Chapter 23: Representing data • Bar graphs and double bar graphs • Histograms • Pie charts • Broken-line graphs • Scatter plots. Chapter 24: Interpret, analyse and report on data  • The effects of summary statistics on how data is reported • Misleading graphs • Analysing extreme values and outliers Chapter 25: Probability II • Simple events • Compound events	Grade 8

Fourth Term



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Mathematics

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Chapters	Grade
Chapter 1: Algebraic expressions • The real number system • Rational and irrational numbers • Rounding off • Estimating surds • Products • Factorisation • Simplification of fractions Chapter 2: Exponents • Revision of exponent laws • Rational exponents • Exponential equations Chapter 3: Number patterns • Describing sequences Chapter 4: Equations and inequalities • Solving linear equations • Solving quadratic equations • Solving simultaneous equations • Word problems • Literal equations • Solving linear inequalities	Grade 9
Chapter 5: Trigonometry • Similarity of triangles • Defining the trigonometric ratios • Reciprocal ratios • Calculator skills • Special angles • Solving trigonometric equations • Defining ratios in the Cartesian plane	

First Term



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Chapters	Grade
Chapter 6: Algebraic expressions • Functions • Linear functions • Quadratic functions • Hyperbolic functions • Exponential functions • Trigonometric functions • Interpretation of graphs Chapter 7: Euclidean geometry • Triangles • Quadrilaterals • The mid-point theorem Chapter 8: Analytical geometry • Drawing figures on the Cartesian plane  • Distance between two points • Gradient of a line • Mid-point of a line <i>Second Term</i>	Grade 9
Chapter 9: Finance and growth • Simple interest • Compound interest • Calculations using simple and compound interest • Foreign exchange rates Chapter 10: Statistics • Collecting data • Measures of central tendency • Grouping data • Measures of dispersion • Five number summary Chapter 11: Trigonometry • Two-dimensional problems <i>Third Term</i>	



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Chapters	Grade
Chapter 12: Euclidean geometry  • Proofs and conjectures Chapter 13: Measurements • Area of a polygon • Right prisms and cylinders • Right pyramids, right cones and spheres • The effect of multiplying a dimension by a factor of k Chapter 14: Probability • Theoretical probability • Relative frequency • Venn diagrams • Union and intersection • Probability identities • Mutually exclusive events <i>Fourth Term</i>	Grade 9



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Chapters	Grade
Chapter 1: Exponents and surds • Rational exponents and surds • Solving surd equations • Applications of exponentials Chapter 2: Equations and inequalities • Completing the square • Quadratic formula • Substitution • Finding the equation • Nature of roots • Quadratic inequalities Chapter 3: Number patterns 86 • Quadratic sequences <i>First Term</i>	Grade 10
Chapter 4: Analytical geometry • Equation of a line • Inclination of a line • Parallel lines • Perpendicular lines Chapter 5: Functions • Quadratic functions • Average gradient • Hyperbolic functions • Exponential functions • The sine function • The cosine function • The tangent function Chapter 6: Trigonometry • Trigonometric identities • Reduction formula • Trigonometric equations • Area, sine, and cosine rules . <i>Second Term</i>	



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Chapter 7: Measurement • Area of a polygon • Right prisms and cylinders • Right pyramids, right cones and spheres • Multiplying a dimension by a constant factor Chapter 8: Euclidean geometry • Circle geometry Chapter 9: Finance, growth and decay  • Simple and compound depreciation • Timelines • Nominal and effective interest rates <i>Third Term</i>	Grade 10
Chapter 10: Probability • Dependent and independent events • More Venn diagrams • Tree diagrams • Contingency tables Chapter 11: Statistics • Histograms • Ogives • Variance and standard deviation • Symmetric and skewed data • Identification of outliers Chapter 12: Linear programming  • Optimisation using graphs <i>Fourth Term</i>	



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Chapters	Grade
Chapter 1: Sequences and series • Arithmetic sequences • Geometric sequences • Series • Finite arithmetic series • Finite geometric series • Infinite series Chapter 2: Functions • Functions and relations • Inverse functions • Linear functions • Quadratic functions • Exponential functions • Enrichment: more on logarithms	<i>First Term</i>
Chapter 3: Differential calculus • Limits • Differentiation from first principles • Rules for differentiation • Equation of a tangent to a curve • Second derivative • Sketching graphs • Applications of differential calculus Chapter 4: Finance • Calculating the period of an investment • Annuities • Future value annuities • Present value annuities • Analysing investment and loan options	<i>Second Term</i> Grade 11



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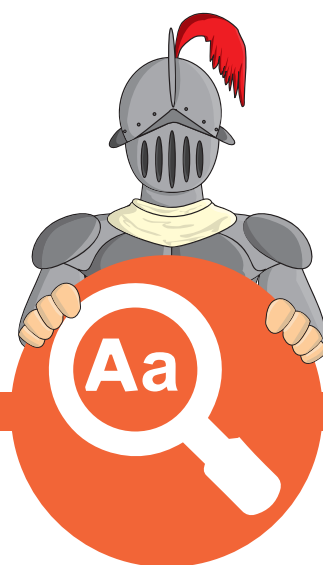
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Chapters	Grade
Chapter 5: Trigonometry • Compound angle identities • Double angle identities • Solving equations • Applications of trigonometric functions Chapter 6: Polynomials • Cubic polynomials • Remainder theorem • Factor theorem • Solving cubic equations Chapter 7: Analytical geometry • Equation of a circle • Equation of a tangent to a circle <i>Third Term</i>	Grade 11
Chapter 8: Euclidean geometry • Ratio and proportion • Polygons • Triangles • Similarity • Pythagorean theorem Chapter 9: Statistics • Curve fitting • Correlation Chapter 10: Probability • Identities • Tools and Techniques • The fundamental counting principle • Factorial notation • Application to counting problems • Application to probability problems <i>Fourth Term</i>	



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e-Lenguaje



Lenguaje

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Capítulo 5: LITERATURA - El artículo Capítulo 6: TEXTOS INFORMATIVOS - Texto informativo - Palabras compuestas Capítulo 7: EL ADJETIVO - El adjetivo - Semántica, familia de palabras Capítulo 8: EL GÉNERO DEL SUSTANTIVO - El sustantivo <i>Segundo Período</i>	
Capítulo 9: EL CUENTO - El cuento - Partes del cuento Capítulo 10: TEXTOS DE LA VIDA DIARIA - La Historieta	



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Lenguaje

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Capítulo 11: LAS SEÑALES - Las señales Capítulo 112: ELEMENTOS DE LA COMUNICACIÓN - Elementos de la comunicación - Signos de interrogación y admiración <i>Tercer Período</i>	Grade 1
Capítulo 13: PRONOMBRES PERSONALES - Los pronombres personales - Reglas ortográficas Capítulo 14: EL CORREO - El correo Capítulo 15: TRABALENGUAS RIMAS Y POEMAS - Trabalenguas rimas y poemas - Poema Capítulo 16: EL VERBO - El verbo - Tiempos del verbo <i>Cuarto Período</i>	



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Capítulo 5: EJE ORTOGRÁFICO - La sílaba Capítulo 6: EJE LITERARIO - La fábula Capítulo 7: EJE GRAMATICAL - El adjetivo Capítulo 8: EJE COMUNICATIVO - La exposición - El texto informativo <i>Segundo Período</i>	



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Capítulo 13: EL TEATRO - El teatro - Clases de títeres Capítulo 14: LA ORACIÓN Y SUS PARTES - La oración y sus partes - Partes de la oración Capítulo 15: TEXTO INSTRUCTIVO - Texto instructivo - Los símbolos Capítulo 16: CONCORDANCIA EN LA ORACIÓN - Concordancia en la oración - Aumentativos y diminutivos Cuarto Período	



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Capítulo 5: LA FÁBULA - La fábula - Partes de la fábula Capítulo 6: EL ADJETIVO Y SUS CLASES - El adjetivo Capítulo 7: TEXTO INSTRUCTIVO - Texto instructivo Capítulo 8: ACENTO PROSÓDICO - El acento - Los signos de puntuación <i>Segundo Período</i>	



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Chapter 1: Ecosystems • Ecosystems • Photosynthesis • Food relationships • Other relationships Chapter 2: Ecosystems and the environment • Terrestrial ecosystems • Aquatic ecosystems • The environment • People and the environment • Conservation Chapter 3: Kingdoms of Nature: Plant and Animal • Plant kingdom • Animal kingdom <i>First Term</i>	Grade 5
Chapter 4: How the body works • Cells in the body • Levels of organisation in the human body • Nutrition • Reproduction Chapter 5: Sensitivity: the nervous system • Sensitivity • Sense organs • The nervous system • Health of the nervous system Chapter 6: Sensitivity: the locomotor system • The locomotor system: the skeleton • The locomotor system: muscles and movement • Types of movement • Health of the locomotor system <i>Second Term</i>	



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Natural Science

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Chapter 10: The uses of energy • The properties of energy • Sources of energy • How we use energy • Saving energy Chapter 11: Machines and structures • Parts of a machine • Types of operating parts • Machines and new technology • Structures • Great scientists Chapter 12: Motion and Velocity • Kinematics <i>Fourth Term</i>	



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Natural Science

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Chapter 4: Nutrients in food • food groups Chapter 5: Nutrition • A balanced diet • Diseases caused by an unhealthy diet Chapter 6: food processing • Why do we need food processing? • How are foods processed?	

First Term

Second Term



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Natural Science

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Chapter 7: Nutrition, digestion and respiration • Nutrition • The digestive system • The respiratory system • Digestive and respiratory system health Chapter 8: Nutrition, circulation and excretion • The circulatory system • Circulation • The excretory system • Health of the circulatory and excretory systems Chapter 9: Reproduction • Sexual characteristics and the reproductive system • Sex cells and fertilisation • Pregnancy, birth and lactation • Health and reproduction	Grade 6
Chapter 10: Energy and changes • Forms of energy • Matter and substances • Matter and energy • Chemical reactions • Energy sources and their uses Chapter 11: Electricity and magnetism • Electrical charge • Magnetism • Electric current • Electric circuits • Discoveries and inventions Chapter 12: Substances and their Properties • What is chemistry? • History of chemistry • Fundamental parts of matter • Chemical bonds	



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Chapters	Grade
Chapter 1: The Biosphere • What is the biosphere? • Requirements for sustaining life Chapter 2: Biodiversity 28 • Classification of living things • Diversity of animals • Diversity of plants Chapter 3: Sexual reproduction • Reproduction in angiosperms • Human reproduction Chapter 4: Variation • Variation within a species • Inheritance in humans <i>First Term</i>	Grade 7
Chapter 5: Respiration • The Organism • Aerobic and anaerobic respiration Chapter 6: Plant respiration • Photosynthesis • Light-independent reactions Chapter 7: Respiration in animals • Respiration • Respiration in vertebrates Chapter 8: Human Respiration • What does respiration consist of? • Parts of the human respiratory system <i>Second Term</i>	



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Chapter 13: Potential and kinetic energy - Potential energy - Kinetic energy - Law of conservation of energy - Potential and kinetic energy in systems Chapter 14: Heat: Energy transfer - Heating as a transfer of energy - Conduction - Convection - Radiation Chapter 15: Heat insulation and energy saving - Why do we need insulating materials? - Using insulating materials	



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Chapters	Grade
Chapter 1: Characteristics of the locomotor system • Animal locomotion • Nervous systems according to their complexity • Neuron networks Chapter 2: Muscular system • Physiology of the muscular system Chapter 3: Osseous system • Skeletal system • Macroscopic appearance of a long bone Chapter 4: Nervous system • The structural organization of the brain from an evolutionary perspective • Characteristics and functions <i>First Term</i>	Grade 8
Chapter 5: Sense organs • Sensory organs and receptors Chapter 6: The human eye • Characteristics and functions Chapter 7: The human ear • Pathology of the external ear • Characteristics and functions Chapter 8: Taste, touch and smell • Characteristics and functions • Taste • Receptors corresponding to cutaneous pressure <i>Second Term</i>	



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Chapter 11: Static electricity • Friction and static electricity Chapter 12: Energy transfer in electrical systems • Circuits and current electricity • Components of a circuit • Effects of an electric current Chapter 13: Series and parallel circuits • Series circuits • Parallel circuits • Other output devices Chapter 14: Visible light • Radiation of light • Spectrum of visible light • Reflection of light • Refraction of light <i>Fourth Term</i>	



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Chapter 6: Transcription and translation - Dna Chapter 7: Genetic code - Characteristics and functions Chapter 8: Biotechnology - Molecular genetic engineering - Obtaining a transgenic sow Chapter 9: Genetic basis of evolution - Genetic basis of evolution - On the origin of species Chapter 10: The evolution of hominids - The first mammals - The origin of hominids	

First Term

Second Term



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Chapter 14: The atmosphere - What is the atmosphere? - The troposphere - The stratosphere - The mesosphere - The thermosphere - The greenhouse effect Chapter 15: Birth, life and death of a star - The birth of a star - Life of a star - Death of a star Chapter 16: Beyond the solar system - The Milky Way Galaxy - Our nearest star - Light years, light hours and light minutes - What is beyond the Milky Way Galaxy? <i>Fourth Term</i>	



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Chapter 4: FREE FALL AND ACCELERATION OF GRAVITY • Free fall Chapter 5: MOTION IN TWO DIMENSIONS (SEMIPARABOLIC MOTION) • Semiparabolic motion Chapter 6: MOTION IN TWO DIMENSIONS (PARABOLIC MOTION) • Launch • Acceleration Chapter 7: CIRCULAR, UNIFORM AND VARIED MOTION • Circular motion • Angular acceleration <i>Second Term</i>	



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Physics

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Chapter 12: MECHANICAL ENERGY • Work and energy Chapter 13: CONSERVATION OF ENERGY THEOREM • Energy • Energy graphs Chapter 14: IMPULSE, ELASTIC AND INELASTIC COLLISIONS - MOMENTUM • Impulse • Conservation of energy and collisions Chapter 15: ROTATIONAL EQUILIBRIUM AND ROTATIONAL DYNAMICS • Force and rotation • Center of mass of gravity <i>Fourth Term</i>	



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Chapter 5: THEAT AND TEMPERATURE - Heat - Effects of heat on bodies temperature increase Chapter 6: TLINEAR AND VOLUMETRIC EXPANSION - Temperature - Thermal expansion in bodies with liquid state Chapter 7: TZERO LAW AND FIRST LAW OF THERMODYNAMICS - Zero law - First law of thermodynamics Chapter 8: TTHERMODYNAMIC PROCESSES AND GAS LAWS - Thermodynamic processes adiabatic process - Gas laws, ideal gas <i>Second Term</i>	



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Chapter 13: NATURE OF LIGHT - Light - Velocity of propagation of a wave Chapter 14: PHENOMENA OF LIGHT REFLECTION REFRACTION AND POLARIZATION OF LIGHT - Light rays and images - Refractive index Chapter 15: SPHERICAL LENSES AND RAY DIAGRAM IN SPHERICAL LENSES - Lenses - Image formation in converging and diverging lenses Chapter 16: SPHERICAL MIRRORS AND RAY DIAGRAM IN SPHERICAL MIRRORS - Mirrors - Images in concave spherical mirrors	

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Fourth Term



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Chapter 5: ELECTRIC CURRENT AND ELECTRIC RESISTANCE • Electric current intensity Chapter 6: POWER AND OHM'S LAW • Ohm's law • Electrical power Chapter 7: SERIES, PARALLEL AND MIXED CIRCUITS OF ELECTRICAL RESISTORS • Series and parallel • Mixed connection Chapter 8: SERIES, PARALLEL AND MIXED CAPACITANCE CIRCUITS • Capacitance • Parallel connection <i>Second Term</i>	



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Chapter 13: ATOMIC MODELS • The atom • Quantization of energy Chapter 14: THEORY OF GENERAL AND SPECIAL RELATIVITY, BACKGROUND AND POSTULATES • Relativity • Postulates of the theory of relativity Chapter 15: TIME AND LENGTH CONTRACTION IN RELATIVITY • Length contraction Chapter 16: PHOTOELECTRIC EFFECT • Photons • Einstein's theory of the photoelectric effect	

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Chapter 6: ATOMIC STRUCTURE OF MATTER: ITS THEORIES OR MODELS - The divisible atom Chapter 7: PERIODIC TABLE ITS HISTORY GENERAL STRUCTURE - Periodic table Chapter 8: PERIODIC PROPERTIES - Periodic properties Chapter 9: THE CHEMICAL BOND AND ITS CLASSES - The chemical bond - Molecules with double and triple bonds <i>Second Term</i>	



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Chapter 14: RULES FOR ASSIGNING OXIDATION STATES • Balancing equations Chapter 15: BALANCING CHEMICAL EQUATIONS • Balancing chemical equations Chapter 16: STOICHIOMETRIC CALCULATIONS • Stoichiometric calculations • Dissolutions in chemical reactions <i>Fourth Term</i>	



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Chapter 5: STATES OF MATTER AND THEIR PROPERTIES - Matter and its properties - States of matter Chapter 6: GASES AND THEIR VARIABLES - Gases - Combined gas laws Chapter 7: LIQUID STATE AND ITS PROPERTIES - The liquid state - Hydrostatic pressure Chapter 8: THE SOLID STATE AND ITS PROPERTIES - The solid state - Classification of solids by type of bond <i>Second Term</i>	



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Chapter 13: COLLISION THEORY - Theory of collisions - Relationship between reaction rate and reactant concentration Chapter 14: FACTORS AFFECTING THE RATE OF A REACTION - Factors affecting the rate of a reaction - Influence of catalysts Chapter 15: CHEMICAL EQUILIBRIUM AND EQUILIBRIUM CONSTANT - Chemical equilibrium and equilibrium constant Chapter 16: ACIDS AND BASES - PH AND POH - Acids, bases and ph - Solvent leveling effect <i>Fourth Term</i>	



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Chapter 5: FUNCTIONAL GROUPS ALCOHOL GROUP - PHENOLS AND ETHERS • Chemical properties • Phenols Chapter 6: FUNCTIONAL GROUPS ALDEHYDES, KETONES, ACIDS, CARBOXYLIC ACIDS - ETHERS • Aldehydes and ketones • Carboxylic acids and derivatives Chapter 7: FUNCTIONAL GROUPS • Amines and amides • Reactions of amines Chapter 8: HALOGENATED, NITROGENOUS, PHOSPHOROUS AND SULFUR FUNCTIONAL GROUPS • What are halogenated organic compounds • Sulfur compounds <i>Second Term</i>	



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Chemistry

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Chapter 13: AMINO ACIDS, CLASSIFICATION AND PROPERTIES - Amino acids classification and properties - Essential amino acids Chapter 14: PROTEINS CLASSIFICATION AND PROPERTIES - Proteins - Proteins classification Chapter 15: VITAMINS CLASSIFICATION AND PROPERTIES - Vitamins classification and properties - Daily requirements and nutritional status Chapter 16: HORMONES THEIR CLASSIFICATION AND CHARACTERISTICS - Hormones their classification and characteristics - Characteristics and properties of hormones <i>Fourth Term</i>	



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e-Social Science



Social Science

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Chapter 4: Your home, the earth • Continents and Oceans • Land and water • Cardinal points Chapter 5: Water everywhere! Bodies of water • Bodies of water • Uses of water • The weather • Clean energy <i>Second Term</i>	



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Chapter 9: The history of my country • Patriotic symbols Chapter 10: What is Colombia like? • Ethnic groups Chapter 11: Departments of Colombia • Get to know the departments of Colombia <i>Fourth Term</i>	



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Chapter 4: Knowing our environment • Customs of our ancestors Chapter 5: The climate and the thermal floors • The climate • Thermal floors Chapter 6: Urban space • Transformation of the urban space. <i>Second Term</i>	



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Chapter 11: Orientation and location - The maps Chapter 12: Norms of the educational community - The educational community Chapter 13: Children's rights - What are the rights of children? <i>Fourth Term</i>	Grade 2



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Chapter 12: Traditions of the regions of Colombia - Traditions by regions - I know the culture of the regions Chapter 13: Natural geographic regions of Colombia - Different natural regions Chapter 14: Social groups and districts of Colombia - Indigenous territories - Special districts of Colombia <i>Fourth Term</i>	



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Chapter 1: How much of the Earth is water? • The hydrosphere • Bodies of water • Stages of a river • The water cycle Chapter 2: What are the periods of Prehistory? • The Stone Age • The Metal Ages Chapter 3: Indigenous and pre-Hispanic period • Settlement of the Americas • Indigenous communities in the Americas <i>First Term</i>	Grade 4
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Chapter 12: Geographical and climatic zones • Caribbean region • Simon Bolivar's liberation campaign Chapter 13: Hydrographic sources of Colombia • Water on land • Colombian hydrography Chapter 14: Fundamental rights in Colombia • Human rights • Protection of fundamental rights <i>Fourth Term</i>	



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Chapter 5: Conservative hegemony • Conservative hegemony • The constitution of 1886 Chapter 6: Liberal republic • Liberal Republic • Presidents of the liberal hegemony Chapter 7: Orientation on planet earth • Orientation on the earth • How geographical coordinates are measured Chapter 8: Sectors of the economy • Economy of a country • The tertiary sector <i>Second Term</i>	



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Chapter 13: From the national front to the constitution • The National Front 1958-1974 • From the 1991 constitution to the present day Chapter 14: Colombia at the beginning of the 21st century • 21st century in Colombia • Political parties and movements Chapter 15: Latitudinal zones of the earth • The earth • Main biomes of the latitudinal zones Chapter 16: The Colombian political system • Colombian political system • Public power in Colombia <i>Fourth Term</i>	



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Chapter 4: Mesopotamian Civilization • Origin Of Early Civilizations • Society And Work Chapter 5: Egyptian Civilization • Egyptian Civilization • Social Classes Chapter 6: Indian Civilization • Before Christ • Social Organization Chapter 7: Ancient China Civilization • Chinese Culture • Chinese Wall <i>Second Term</i>	



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Chapter 11: Pre-Hispanic cultures of the Americas and Colombia - Theories of American settlement Chapter 12: Cultures of North America - History, culture, hierarchical organization Chapter 13: Cultures of Mesoamerica (Aztecs and Mayas) - History, culture, hierarchical organization Chapter 14: South America: The Incas - History, culture, hierarchical organization Chapter 15: Pre-Hispanic cultures of Colombia - History, culture, hierarchical organization	

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Chapter 5: End of the Middle Ages and the Renaissance • Modern states • The modern state Chapter 6: Protestant. Absolutism • The origins of religious reform Chapter 7: The Enlightenment • The eighteenth century • Rationalism	Second Term

Grade 7



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Chapter 11: Colonial Administration and the Viceroyalty of New Granada • The Viceroyalty of New Granada Chapter 12: Colombia: conquest and colonization • Conquest and exploration • Colonial economy, politics and society in the viceroyalty of New Granada • Botanical expedition • Communist rebellion Chapter 13: World political geography • Geopolitics between modernity and postmodernity? <i>Fourth Term</i>	



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Chapter 4: Human geography of Asia and Africa • Location of Asia • Location of Africa Chapter 5: European colonialism in the 19th century • 19th century Asia, Africa and Oceania • Administration and society Chapter 6: Independence and nation-building • Causes of independence • Consolidation of nations during the independence process of independence <i>Second Term</i>	



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Social Science

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Chapter 10: Social problems in Colombia education • Population problems • Education in Colombia Chapter 11: Biogeography • Biogeographic zones of the world • Cold, temperate and warm zones • Local or zonal zones Chapter 12: Environmental impact • Consequences of global warming • Deforestation <i>Fourth Term</i>	



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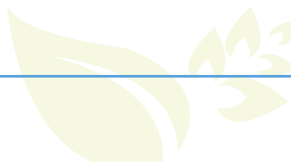
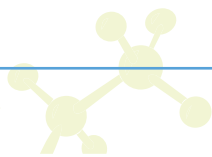
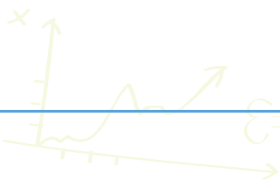
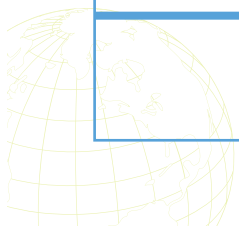
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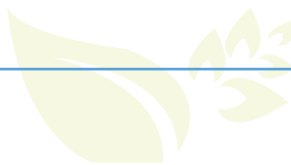
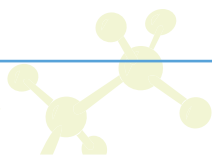
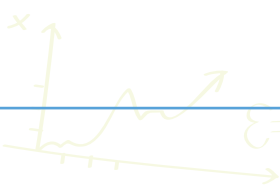
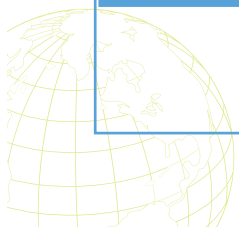




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PRAGMATISMO SOREN KIERKEGAARD BERTRAND RUSSEL EXISTENCIALISMO EXISTENCIALISMO ATEO HEIDEGGER SARTRE FILOSOFÍA LATINOAMERICANA	Cuarto Período



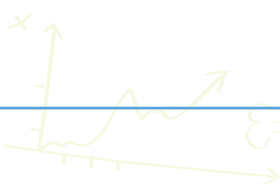
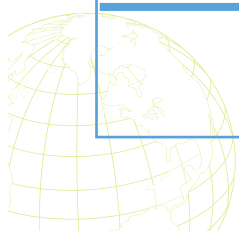
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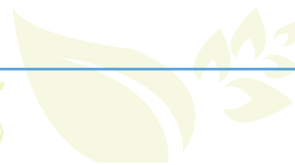
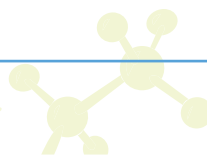


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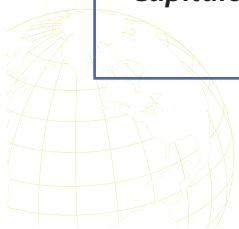




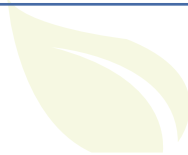
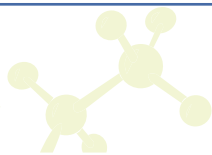
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$$E=MC^2$$



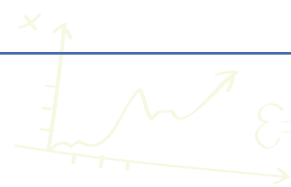
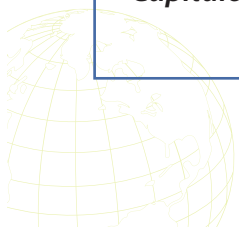
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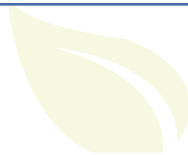
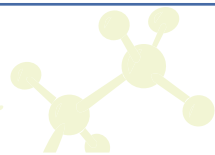
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$$E=mc^2$$



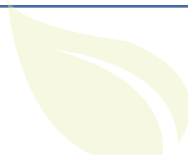
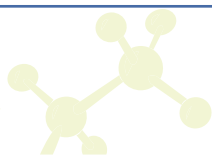
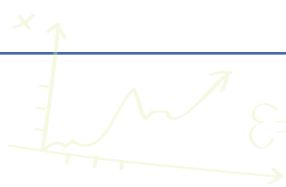
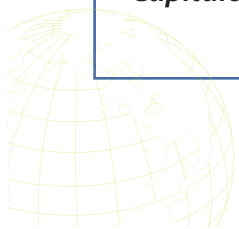
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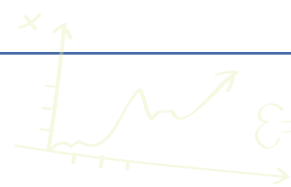
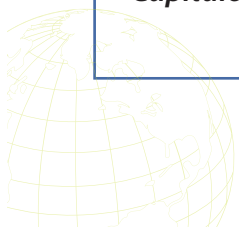


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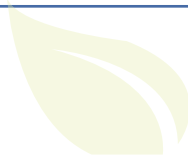
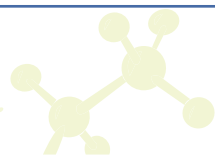
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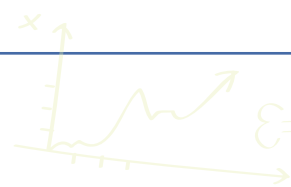
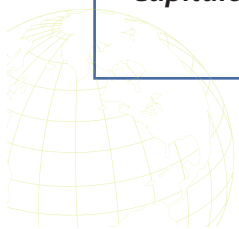




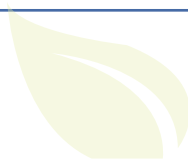
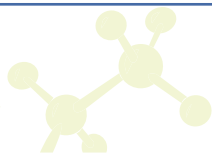
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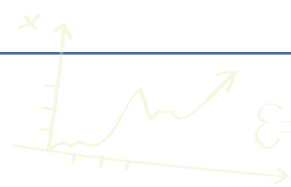
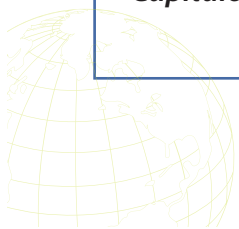


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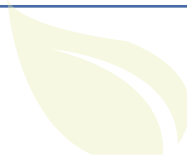
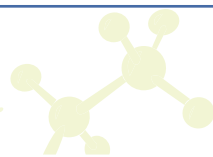
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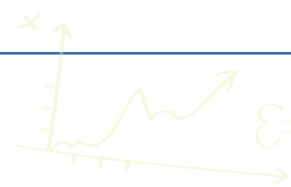
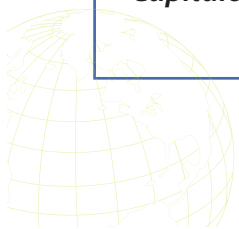
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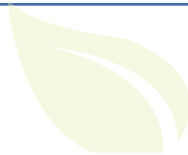
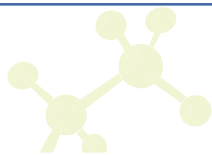
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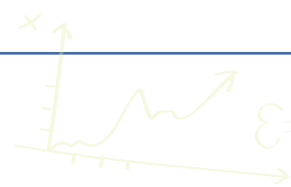
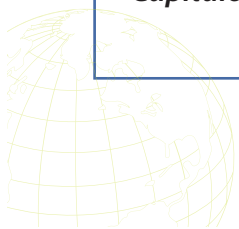


Ética y Religión

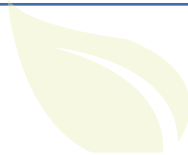
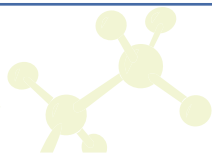
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$$E=mc^2$$

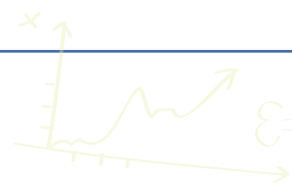
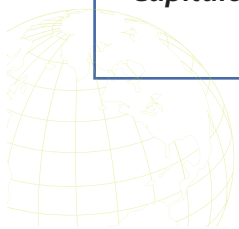




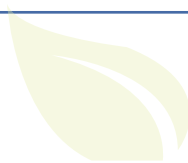
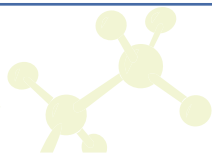
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$$E=mc^2$$

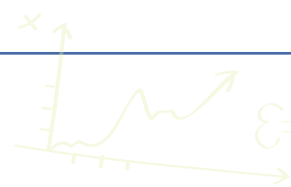
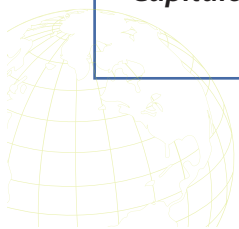


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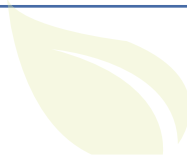
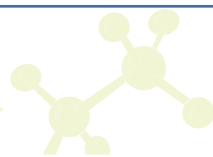
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$$E=mc^2$$



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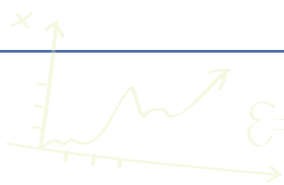
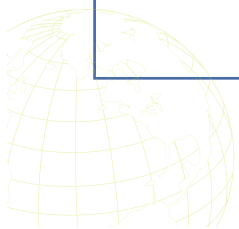




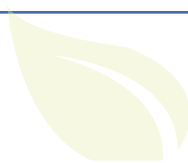
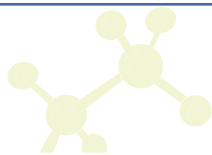
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$$E=MC_2$$



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