

Mathematics Curriculum Overview: Syria

Grade	Number	Algebra	Data	Spatial Sense, Geometry & Measurement	Financial Literacy	Social-Emotional Learning & Mathematical Processes
Grade 6	 Natural Numbers Adding, subtracting, dividing and multiplying natural numbers Properties of multiplication Rounding Comparing and contrasting natural numbers Operations Order of Operations Exponents: square numbers and cube numbers Fractions: adding, subtracting, multiplying, and dividing mixed numbers Decimals: adding, subtracting, and multiplying decimals Multiplying decimals with whole numbers and using fractions Fractions, Decimals, and Precents Factorization Divisibility Rules Largest Common Multiples (LCM) and Greatest Common Factors (GCF) Ratio and Proportionality 	Algebraic Expressions Equations	Mean	 Symmetry Axial symmetry Aransformation Translation Rotation Be a construct on the segmentation Angles Properties of two related angles (alternate angles, adjacent angles - Measuring angles Geometric Shapes Parallelograms: rectangles, diamonds, squares Trapezoid Triangles: types 3D shapes: Prisms and Cylinders Measurement Units of measurement of length, area, and volume Area and perimeter of parallelograms Circles: circumference and area, pi time Similarity	n/a	n/a
Grade 7	Real Numbers - Natural Numbers - Writing Numbers: digits and words - Place Value Table - Integers: addition, subtraction, multiplication, and division - Rational Numbers: operations - Cartesian Plane - Order of Operations - Exponents - Square Roots Ratio and Proportionality - Rate - Percentage - Fraction: cross multiplication	Algebraic Expressions and Equations	Statistics - Graphs: <i>bar graphs, double bar graphs, binary column chart, histograms, pie/circle graphs, line graphs, scattered plots</i> Probability - events and their possibilities - two complementary events	Drawing Scale Transformation - Reflection: reflection centres Lines - parallel lines and perpendicular lines Measurement - Units - Area Geometric Shapes - Parallelogram: proving, lines of symmetry, properties, area, types - Triangles: classification, angles, drawing, area - Circles: drawing a circle that passes by a triangle vertex, area - Prisms and cylinders: surface area	n/a	n/a

Grade 8	Real Numbers - Rational and Irrational Numbers - Operations on large numbers - Word Problems: addition, subtraction, and multiplication Order of Operations - Exponents: rules on number 10 - Decimals - Calculations with Square Roots: four operations, decimals Percentage Velocity	Expressions - factoring and simplifying Equations and Operations - solving equations - linear equations - equality - equation synthesis	Statistics - Mean - Tables - Aggregated Frequency - Representing Statistical Data	 Proportionality and Graphical Representation Three Equal Ratios Lines parallels, bisectors, and perpendicular lines Geometric Shapes Parallelogram Triangles and Rectangles Triangles: height; bisectors, congruent triangles Circles: a circle that passes a triangle vertex and the vertices of a right angle, tangent Pyramids and Cones: volume Pythagorean Theorem 	n/a	n/a
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1. Adopted from: The Ontario Science and Technology Curriculum, (2022), <u>https://www.dcp.edu.gov.on.ca/en/curriculum/science-technology</u> & Math Curricula of the Syrian Ministry of National Education.