The ESCAPE Projects

Mathematics Curriculum Overview: South Korea

Grade	Number	Algebra	Data	Spatial Sense, Geometry & Measurement	Financial Literacy	Social-Emotional Learning & Mathematical Processes
Grade 6	- Dividing Fractions: by like and unlike denominators, by proper fractions, improper fractions, mixed numbers, and whole numbers - Dividing Decimals: by decimals and whole numbers, estimation, remainders	- Ratios: fractions, decimals, and precents - Proportions	- Graphs: reading, analyzing, types of graphs - pictographs, bar graphs, pie graphs, etc.	- Prisms and Pyramids - Surface Area and Volume of Rectangles - Space and 3D - Area of Circle, Cylinders, Cones, and Spheres	n/a	n/a
Grade 7	- Prime Factorization - Greatest Common Factor and Least Common Multiple - Integers and Rational Numbers (Addition, Subtraction, Multiplication, Division)	- Algebraic Equations and Expressions - Linear Equation - Coordinate of Plane and Graph: Ordered Pairs and Coordinates, Direct and Inverse Proportion	- Statistics: stem and leaf plots, variance, frequency, histogram, frequency distributions, relative frequency graphs	- Basic Geometric Shapes: point, lines, planes, angles; positional relationship between points, straight lines, and planes; corresponding and alternate angles - Construction and Congruence of Triangle - 2D Shapes: polygons, circles, and sectors - 3D Shapes: polyhedrons, solids of revolution, surface area, volume	n/a	n/a
Grade 8	- Rational Numbers and Repeating Decimals: repeating decimals and fractions - Equations: laws of exponents, monomials, polynomials	- Algebraic Equations - Linear Inequality and Simultaneous Linear Equations - Linear Functions and Graphs - Relationship between Linear Function and Linear Equation	- Probability	- Geometric Properties of Triangles and Rectangles - Similarity - Pythagorean Theorem	n/a	n/a
Grade 9	- Square Roots - Irrational Numbers and Real Numbers	- Polynomial Expressions and Factorization - Quadratic Equation - Quadratic Functions and Graphs	- Representative Values and Standard Deviation - Correlation	- Trigometry - Circles	n/a	n/a