المدرسة الأمريكية الدولية
American International School

MIDDLE SCHOOL

International Baccalaureate®
Baccalauréat International
Bachillerato Internacional

MATHEMATICS SCOPE AND SEQUENCE
AY 26-27

STRAND	Grade 5 STANDARDS/SKILLS
OPERATIONS AND ALGEBRAIC THINKING	5.OA.A.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. (Additional cluster)
	5.OA.A.2 Write simple expressions that record calculations with numbers and interpret numerical expressions without evaluating them. (Additional cluster)
	5.OA.B.3 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. (Additional cluster)
NUMBER AND OPERATIONS IN BASE TEN	5.NBT.A.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.
	5.NBT.A.2.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10 and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.
	5.NBT.A.4 Use place value understanding to round decimals to any place.
	5.NBT. A.3 Read, write, and compare decimals to thousandths
	5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.
	5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
	5.NBT. B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.
NUMBER AND OPERATIONS - FRACTIONS	5.NF.A.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.

	5.NF.B.4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction 5.NF.B.5 interpret multiplication as scaling (resizing).
	5.NF.B.6 Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.
	5.NF.B.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions
	5.NF.B.3 Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.
MEASUREMENT AND DATA	5.MD.C.3 Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles, and squares are rectangles, so all squares have four right angles.
	5.MD.C.4 Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.
	5.MD.C.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.
GEOMETRY	5.G.B.4 Classify two-dimensional figures in a hierarchy based on properties. (additional cluster)