

ST. JOHN THE BAPTIST CATHOLIC SCHOOL

School-Wide Mathematics Curriculum – Grade 7

| Trimester | Content | Essential State Standard | Strands | Strategies | Assessments |
|-----------|--|---|--|--|---|
| 1 | <p>Number Sense 1</p> <p>Measurement and Geometry 2.0</p> <p>Algebra and Functions 1,2,4</p> <p>Statistics, Data Analysis, and Probability 1</p> | <p>1.0 Students know the properties of, and compute with, rational numbers expressed in a variety of forms:</p> <p>Algebra and Functions</p> <p>1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:</p> <p>Measurement and Geometry</p> <p>Students choose appropriate units of measure and use ratios to convert within and between measurement systems to solve problems:</p> | <p>1.1 Read, write, and compare rational numbers in scientific notation (positive and negative powers of 10) with approximate numbers using scientific notation.</p> <p>1.2 Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.</p> <p>1.3 Convert fractions to decimals and percents and use these representations in estimations, computations, and applications.</p> <p>1.4 Differentiate between rational and irrational numbers.</p> <p>1.5 Know that every rational number is either a terminating or repeating decimal and be able to convert terminating decimals into reduced fractions.</p> <p>1.6 Calculate the percentage of increases and decreases of a quantity.</p> <p>1.7 Solve problems that involve discounts, markups, commissions, and profit and</p> | <p>H.M. Mathematics Text- grade 1</p> <p>Box-it Bag-It Mathematics (gr.1 -2 edition)</p> <p>Integration with other core subjects, especially social studies and science.</p> | <p>H.M. Mathematics chapter 1-4 tests</p> <p>Teacher observation of student work and homework</p> |

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| | | | compute simple and compound interest. | | |
| 2 | NS 1, 2 AF 2 SDP 1 MR 1,2 | NS 1.2 Powers of Rational Numbers NS 1.5 Rational Numbers and Decimals NS 2.2 Adding Subtracting fractions | | *Number, patterns, place value and calendar are integrated every day. | H.M. Mathematics chapter tests 5,6,7,8 Teacher evaluation of oral counting by 2's, 5's, and 10's Teacher observation and correction of seatwork and homework |
| 3 | Addition & subtraction to 20 Measurement Time and money 2 place addition and subtraction | 2.1 Understand negative whole-number exponents. Multiply and divide expressions involving exponents with a common base. 2.2 Add and subtract fractions by using factoring to find common denominators. 2.3 Multiply, divide, and simplify rational numbers by using exponent rules. 2.4 Use the inverse relationship between raising to a power and extracting the root of a perfect square integer; for an integer that is not square, determine without a calculator the two integers between which its square root lies | NS & AF build on all standards with larger #'s 1.1 compare the length, weight and volume of two or more objects by using direct comparison with nonstandard and standard units. MG 1.2 (NS) 1.5 identify and know the value of coins & show different combinations of coins that equal the same value. NS 2.6, 2.7,3.0, 3.1 | compare the length, weight and volume of two or more objects by using direct comparison with nonstandard and standard units. | H.M. Mathematics chp. Tests: 9, 10, 11, 12 "mad minute" timed tests Teacher observation and correction of seatwork and homework |

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| | | and explain why. 2.5 Understand the meaning of the absolute value of a number; interpret the absolute value as the distance of the number | | | |
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