A Correlation of

Indiana Academic Standards Mathematics (2014)
Grade 5

To the Lessons of

enVisionmath 2.0
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Grade 5

**A Correlation of Indiana Academic Standards - Mathematics (2014)
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TOPIC 1 Understand Place Value	
1-1 Patterns with Exponents and Powers of 10	**5.NS.4** 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.
1-2 Understand Whole-Number Place Value	**5.NS.3** Recognize the relationship 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 inversely, a digit in one place represents 1/10 of what it represents in the place to its left.
1-3 Decimals to Thousandths	**5.NS.3** Recognize the relationship 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 inversely, a digit in one place represents 1/10 of what it represents in the place to its left. **5.NS.2** Explain different interpretations of fractions, including: as parts of a whole, parts of a set, and division of whole numbers by whole numbers.
1-4 Understand Decimal Place Value	**5.NS.3** Recognize the relationship 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 inversely, a digit in one place represents 1/10 of what it represents in the place to its left.
1-5 Compare Decimals	**5.NS.1** Use a number line to compare and order fractions, mixed numbers, and decimals to thousandths. Write the results using >, =, and < symbols.
1-6 Round Decimals	**5.NS.5** Use place value understanding to round decimal numbers up to thousandths to any given place value.

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1-7 Math Practices and Problem Solving: Look For and Use Structure	**5.NS.1** Use a number line to compare and order fractions, mixed numbers, and decimals to thousandths. Write the results using >, =, and < symbols. **5.NS.3** Recognize the relationship 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 inversely, a digit in one place represents 1/10 of what it represents in the place to its left.
TOPIC 2 Add and Subtract Decimals to Hundredths	
2-1 Mental Math	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.C.9** Evaluate expressions with parentheses or brackets involving whole numbers using the commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
2-2 Estimate Sums and Differences	**5.NS.5** Use place value understanding to round decimal numbers up to thousandths to any given place value. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).

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2-3 Use Models to Add and Subtract Decimals	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem). **5.M.3** Develop and use formulas for the area of triangles, parallelograms and trapezoids. Solve real-world and other mathematical problems that involve perimeter and area of triangles, parallelograms and trapezoids, using appropriate units for measures.
2-4 Add Decimals	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
2-5 Subtract Decimals	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).

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2-6 Add and Subtract Decimals	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
2-7 Math Practices and Problem Solving: Model with Math	**5.NS.5** Use place value understanding to round decimal numbers up to thousandths to any given place value. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
TOPIC 3 Fluently Multiply Multi-Digit Whole Numbers	
3-1 Multiply Greater Numbers by Powers of 10	**5.NS.4** 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.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.

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3-2 Estimate Products	**5.NS.5** Use place value understanding to round decimal numbers up to thousandths to any given place value. **5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
3-3 Multiply 3-Digit by 2-Digit Numbers	**5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
3-4 Multiply Whole Numbers with Zeros	**5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.

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3-5 Multiply Multi-Digit Numbers	**5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
3-6 Solve Word Problems Using Multiplication	**5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
3-7 Math Practices and Problem Solving: Critique Reasoning	**5.NS.5** Use place value understanding to round decimal numbers up to thousandths to any given place value. **5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.

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TOPIC 4 Use Models and Strategies to Multiply Decimals	
4-1 Multiply Decimals by Powers of 10	**5.NS.4** 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.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
4-2 Estimate the Product of a Decimal and a Whole Number	**5.NS.5** Use place value understanding to round decimal numbers up to thousandths to any given place value. **5.C.3** Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).

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4-3 Use Models to Multiply a Decimal and a Whole Number	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem). **5.M.3** Develop and use formulas for the area of triangles, parallelograms and trapezoids. Solve real-world and other mathematical problems that involve perimeter and area of triangles, parallelograms and trapezoids, using appropriate units for measures.
4-4 Multiply a Decimal by a Whole Number	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
4-5 Use Models to Multiply a Decimal and a Decimal	**5.C.3** Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).

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4-6 Multiply Decimals Using Partial Products	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
4-7 Use Properties to Multiply Decimals	**5.M.3** Develop and use formulas for the area of triangles, parallelograms and trapezoids. Solve real-world and other mathematical problems that involve perimeter and area of triangles, parallelograms and trapezoids, using appropriate units for measures. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.C.9** Evaluate expressions with parentheses or brackets involving whole numbers using the commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
4-8 Use Number Sense to Multiply Decimals	**5.C.3** Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning.

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(Continued) 4-8 Use Number Sense to Multiply Decimals	**5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
4-9 Multiply Decimals	**5.C.3** Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
4-10 Math Practices and Problem Solving: Model with Math	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem). **5.M.3** Develop and use formulas for the area of triangles, parallelograms and trapezoids. Solve real-world and other mathematical problems that involve perimeter and area of triangles, parallelograms and trapezoids, using appropriate units for measures.

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TOPIC 5 Use Models and Strategies to Divide Whole Numbers	
5-1 Use Patterns and Mental Math to Divide	**5.NS.3** Recognize the relationship 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 inversely, a digit in one place represents 1/10 of what it represents in the place to its left. **5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
5-2 Estimate Quotients with 2-Digit Divisors	**5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.

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5-3 Use Models to Divide with 2-Digit Divisors	**5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
5-4 Use Partial Quotients to Divide	**5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
5-5 Divide by Multiples of 10	**5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.

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5-6 Use Estimation to Place the First Digit of the Quotient	**5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
5-7 Divide by 2-Digit Divisors	**5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
5-8 Math Practices and Problem Solving: Make Sense and Persevere	**5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.

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TOPIC 6 Use Models and Strategies to Divide Decimals	
6-1 Patterns for Dividing with Decimals	**5.NS.4** 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.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
6-2 Estimate Decimal Quotients	**5.NS.5** Use place value understanding to round decimal numbers up to thousandths to any given place value. **5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
6-3 Use Models to Divide by a 1-Digit Whole Number	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).

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6-4 Divide by a 1-Digit Whole Number	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
6-5 Divide by a 2-Digit Whole Number	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
6-6 Use Number Sense to Divide Decimals	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
6-7 Divide by a Decimal	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).

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6-8 Continue to Divide with Decimals	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
6-9 Math Practices and Problem Solving: Reasoning	**5.C.8** Add, subtract, multiply, and divide decimals to hundredths, using models or drawings and strategies based on place value or the properties of operations. Describe the strategy and explain the reasoning. **5.AT.5** Solve real-world problems involving addition, subtraction, multiplication, and division with decimals to hundredths, including problems that involve money in decimal notation (e.g. by using equations to represent the problem).
TOPIC 7 Use Equivalent Fractions to Add and Subtract Fractions	
7-1 Estimate Sums and Differences of Fractions	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.

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7-2 Find Common Denominators	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
7-3 Add Fractions with Unlike Denominators	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
7-4 Subtract Fractions with Unlike Denominators.	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable
7-5 Add and Subtract Fractions	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable

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7-6 Estimate Sums and Differences of Mixed Numbers	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
7-7 Use Models to Add Mixed Numbers	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
7-8 Add Mixed Numbers	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
7-9 Use Models to Subtract Mixed Numbers	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable

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7-10 Subtract Mixed Numbers	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
7-11 Add and Subtract Mixed Numbers	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
7-12 Math Practices and Problem Solving: Model with Math	**5.C.4** Add and subtract fractions with unlike denominators, including mixed numbers. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable.
TOPIC 8 Apply Understanding of Multiplication to Multiply Fractions	
8-1 Use Models to Multiply a Whole Number by a Fraction	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).

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8-2 Use Models to Multiply a Fraction by a Whole Number	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).
8-3 Multiply Fractions and Whole Numbers	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).
8-4 Use Models to Multiply Two Fractions	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).
8-5 Multiply Two Fractions	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).
8-6 Area of a Rectangle	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem). **5.M.2** Find the area of a rectangle with fractional side lengths by modeling with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the

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(Continued) 8-6 Area of a Rectangle	side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.
8-7 Multiply Mixed Numbers	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).
8-8 Multiplication as Scaling	**5.C.3** Compare the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication. **5.C.6** Explain why multiplying a positive number by a fraction greater than 1 results in a product greater than the given number. Explain why multiplying a positive number by a fraction less than 1 results in a product smaller than the given number. Relate the principle of fraction equivalence, a/b = (n × a)/(n × b), to the effect of multiplying a/b by 1.
8-9 Math Practices and Problem Solving: Make Sense and Persevere	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem). **5.M.3** Develop and use formulas for the area of triangles, parallelograms and trapezoids. Solve real-world and other mathematical problems that involve perimeter and area of triangles, parallelograms and trapezoids, using appropriate units for measures.
TOPIC 9 Apply Understanding of Division to Divide Fractions	
9-1 Fractions and Division	**5.NS.2** Explain different interpretations of fractions, including: as parts of a whole, parts of a set, and division of whole numbers by whole numbers.

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9-2 Fractions and Mixed Numbers as Quotients	**5.NS.2** Explain different interpretations of fractions, including: as parts of a whole, parts of a set, and division of whole numbers by whole numbers.
9-3 Use Multiplication to Divide	**5.C.5** Use visual fraction models and numbers to multiply a fraction by a fraction or a whole number. **5.C.7** Use visual fraction models and numbers to divide a unit fraction by a non-zero whole number and to divide a whole number by a unit fraction. **5.AT.4** Solve real-world problems involving division of unit fractions by non-zero whole numbers, and division of whole numbers by unit fractions (e.g., by using visual fraction models and equations to represent the problem).
9-4 Divide Whole Numbers by Unit Fractions	**5.C.7** Use visual fraction models and numbers to divide a unit fraction by a non-zero whole number and to divide a whole number by a unit fraction. **5.AT.4** Solve real-world problems involving division of unit fractions by non-zero whole numbers, and division of whole numbers by unit fractions (e.g., by using visual fraction models and equations to represent the problem).
9-5 Divide Unit Fractions by Non-Zero Whole Numbers	**5.C.7** Use visual fraction models and numbers to divide a unit fraction by a non-zero whole number and to divide a whole number by a unit fraction. **5.AT.4** Solve real-world problems involving division of unit fractions by non-zero whole numbers, and division of whole numbers by unit fractions (e.g., by using visual fraction models and equations to represent the problem).
9-6 Divide Whole Numbers and Unit Fractions	**5.C.7** Use visual fraction models and numbers to divide a unit fraction by a non-zero whole number and to divide a whole number by a unit fraction. **5.AT.4** Solve real-world problems involving division of unit fractions by non-zero whole numbers, and division of whole numbers by unit fractions (e.g., by using visual fraction models and equations to represent the problem).

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9-7 Solve Problems Using Division	**5.C.7** Use visual fraction models and numbers to divide a unit fraction by a non-zero whole number and to divide a whole number by a unit fraction. **5.AT.4** Solve real-world problems involving division of unit fractions by non-zero whole numbers, and division of whole numbers by unit fractions (e.g., by using visual fraction models and equations to represent the problem).
9-8 Math Practices and Problem Solving: Repeated Reasoning	**5.C.7** Use visual fraction models and numbers to divide a unit fraction by a non-zero whole number and to divide a whole number by a unit fraction. **5.AT.4** Solve real-world problems involving division of unit fractions by non-zero whole numbers, and division of whole numbers by unit fractions (e.g., by using visual fraction models and equations to represent the problem).
TOPIC 10 Understand Volume Concepts	
10-1 Model Volume	**5.M.4** Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths or multiplying the height by the area of the base.
10-2 Develop a Volume Formula	**5.M.4** Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths or multiplying the height by the area of the base. **5.M.5** Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for right rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths to solve real-world problems and other mathematical problems.

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10-3 Volume of Prisms	**5.M.4** Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths or multiplying the height by the area of the base. **5.M.5** Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for right rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths to solve real-world problems and other mathematical problems.
10-4 Combine Volumes of Prisms	**5.M.4** Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths or multiplying the height by the area of the base. **5.M.5** Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for right rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths to solve real-world problems and other mathematical problems. **5.M.6** Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real-world problems and other mathematical problems.
10-5 Solve Word Problems Using Volume	**5.M.4** Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths or multiplying the height by the area of the base. **5.M.5** Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for right rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths to solve real-world problems and other mathematical problems.

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(Continued) 10-5 Solve Word Problems Using Volume	**5.M.6** Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real-world problems and other mathematical problems.
10-6 Math Practices and Problem Solving: Use Appropriate Tools	**5.M.4** Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths or multiplying the height by the area of the base. **5.M.5** Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for right rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths to solve real-world problems and other mathematical problems. **5.M.6** Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real-world problems and other mathematical problems.
TOPIC 11 Convert Measurements	
11-1 Convert Customary Units of Length	**5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems.

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11-2 Convert Customary Units of Capacity	**5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems.
11-3 Convert Customary Units of Weight	**5.C.1** Multiply multi-digit whole numbers fluently using a standard algorithmic approach. **5.C.2** Find whole-number quotients and remainders 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. Describe the strategy and explain the reasoning used. **5.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems.
11-4 Convert Metric Units of Length	**5.NS.4** 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.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems.

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11-5 Convert Metric Units of Capacity	**5.NS.4** 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.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems.
11-6 Convert Metric Units of Mass	**5.NS.4** 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.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems.
11-7 Solve Word Problems Using Measurement Conversions	**5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem. **5.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems. **5.M.3** Develop and use formulas for the area of triangles, parallelograms and trapezoids. Solve real-world and other mathematical problems that involve perimeter and area of triangles, parallelograms and trapezoids, using appropriate units for measures.

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11-8 Math Practices and Problem Solving: Precision	**5.M.1** Convert among different-sized standard measurement units within a given measurement system, and use these conversions in solving multi-step real-world problems. **5.AT.1** Solve real-world problems involving multiplication and division of whole numbers (e.g. by using equations to represent the problem). In division problems that involve a remainder, explain how the remainder affects the solution to the problem.
TOPIC 12 Represent and Interpret Data	
12-1 Analyze Line Plots	**5.DS.1** Formulate questions that can be addressed with data and make predictions about the data. Use observations, surveys, and experiments to collect, represent, and interpret the data using tables (including frequency tables), line plots, bar graphs, and line graphs. Recognize the differences in representing categorical and numerical data.
12-2 Make Line Plots	**5.DS.1** Formulate questions that can be addressed with data and make predictions about the data. Use observations, surveys, and experiments to collect, represent, and interpret the data using tables (including frequency tables), line plots, bar graphs, and line graphs. Recognize the differences in representing categorical and numerical data.
12-3 Solve Word Problems Using Measurement Data	**5.DS.1** Formulate questions that can be addressed with data and make predictions about the data. Use observations, surveys, and experiments to collect, represent, and interpret the data using tables (including frequency tables), line plots, bar graphs, and line graphs. Recognize the differences in representing categorical and numerical data.

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(Continued) 12-3 Solve Word Problems Using Measurement Data	**5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).
12-4 Math Practices and Problem Solving: Critique Reasoning	**5.DS.1** Formulate questions that can be addressed with data and make predictions about the data. Use observations, surveys, and experiments to collect, represent, and interpret the data using tables (including frequency tables), line plots, bar graphs, and line graphs. Recognize the differences in representing categorical and numerical data. **5.AT.2** Solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators (e.g., by using visual fraction models and equations to represent the problem). Use benchmark fractions and number sense of fractions to estimate mentally and assess whether the answer is reasonable. **5.AT.3** Solve real-world problems involving multiplication of fractions, including mixed numbers (e.g., by using visual fraction models and equations to represent the problem).
TOPIC 13 Write and Interpret Numerical Expressions	
13-1 Order of Operations	**5.C.9** Evaluate expressions with parentheses or brackets involving whole numbers using the commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property.

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13-2 Evaluate Expressions	**5.C.9** Evaluate expressions with parentheses or brackets involving whole numbers using the commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property.
13-3 Write Numerical Expressions	**5.C.9** Evaluate expressions with parentheses or brackets involving whole numbers using the commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property.
13-4 Interpret Numerical Expressions	**5.C.9** Evaluate expressions with parentheses or brackets involving whole numbers using the commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property.
13-5 Math Practices and Problem Solving: Reasoning	**5.C.9** Evaluate expressions with parentheses or brackets involving whole numbers using the commutative properties of addition and multiplication, associative properties of addition and multiplication, and distributive property.
TOPIC 14 Graph Points on the Coordinate Plane	
14-1 The Coordinate System	**5.AT.6** Graph points with whole number coordinates on a coordinate plane. Explain how the coordinates relate the point as the distance from the origin on each axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).
14-2 Graph Data Using Ordered Pairs	**5.AT.6** Graph points with whole number coordinates on a coordinate plane. Explain how the coordinates relate the point as the distance from the origin on each axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).

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14-3 Solve Problems Using Ordered Pairs	**5.AT.6** Graph points with whole number coordinates on a coordinate plane. Explain how the coordinates relate the point as the distance from the origin on each axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate). **5.AT.7** Represent real-world problems and equations by graphing ordered pairs in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.
14-4 Math Practices and Problem Solving: Reasoning	**5.AT.6** Graph points with whole number coordinates on a coordinate plane. Explain how the coordinates relate the point as the distance from the origin on each axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate). **5.AT.7** Represent real-world problems and equations by graphing ordered pairs in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.
TOPIC 15 Algebra: Analyze Patterns and Relationships	
15-1 Numerical Patterns	**4.AT.6:** Understand that an equation, such as $y = 3x + 5$, is a rule to describe a relationship between two variables and can be used to find a second number when a first number is given. Generate a number pattern that follows a given rule. **5.AT.8** Define and use up to two variables to write linear expressions that arise from real-world problems, and evaluate them for given values.
15-2 More Numerical Patterns	**4.AT.6:** Understand that an equation, such as $y = 3x + 5$, is a rule to describe a relationship between two variables and can be used to find a second number when a first number is given. Generate a number pattern that follows a given rule. **5.AT.8** Define and use up to two variables to write linear expressions that arise from real-world problems, and evaluate them for given values.

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15-3 Analyze and Graph Relationships	**5.AT.7** Represent real-world problems and equations by graphing ordered pairs in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation. **5.AT.8** Define and use up to two variables to write linear expressions that arise from real-world problems, and evaluate them for given values.
15-4 Math Practices and Problem Solving: Make Sense and Persevere	**5.AT.7** Represent real-world problems and equations by graphing ordered pairs in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation. **5.AT.8** Define and use up to two variables to write linear expressions that arise from real-world problems, and evaluate them for given values.
TOPIC 16 Geometric Measurement: Classify Two-Dimensional Figures	
16-1 Classify Triangles	**5.G.1** Identify, describe, and draw triangles (right, acute, obtuse) and circles using appropriate tools (e.g., ruler or straightedge, compass and technology). Understand the relationship between radius and diameter. **5.G.2** Identify and classify polygons including quadrilaterals, pentagons, hexagons, and triangles (equilateral, isosceles, scalene, right, acute and obtuse) based on angle measures and sides. Classify polygons in a hierarchy based on properties.
16-2 Classify Quadrilaterals	**5.G.1** Identify, describe, and draw triangles (right, acute, obtuse) and circles using appropriate tools (e.g., ruler or straightedge, compass and technology). Understand the relationship between radius and diameter. **5.G.2** Identify and classify polygons including quadrilaterals, pentagons, hexagons, and triangles (equilateral, isosceles, scalene, right, acute and obtuse) based on angle measures and sides. Classify polygons in a hierarchy based on properties.

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16-3 Continue to Classify Quadrilaterals	**5.G.1** Identify, describe, and draw triangles (right, acute, obtuse) and circles using appropriate tools (e.g., ruler or straightedge, compass and technology). Understand the relationship between radius and diameter. **5.G.2** Identify and classify polygons including quadrilaterals, pentagons, hexagons, and triangles (equilateral, isosceles, scalene, right, acute and obtuse) based on angle measures and sides. Classify polygons in a hierarchy based on properties.
16-4 Math Practices and Problem Solving: Construct Arguments	**5.G.1** Identify, describe, and draw triangles (right, acute, obtuse) and circles using appropriate tools (e.g., ruler or straightedge, compass and technology). Understand the relationship between radius and diameter. **5.G.2** Identify and classify polygons including quadrilaterals, pentagons, hexagons, and triangles (equilateral, isosceles, scalene, right, acute and obtuse) based on angle measures and sides. Classify polygons in a hierarchy based on properties.