



# MIDDLETOWN MATH SCOPE & SEQUENCE

**Grade: 6**  
**Quarter: Pre-March**  
**Non-Accelerated**

## Standards

Key Ideas, Major Understandings, Performance Indicators, Competencies

## Resources

Pacing Print, Visual, Technology, Manipulatives

## Assessment

Evidence & Scoring Guides

<b>Unit 1 - Statistics</b>			
<b>6S5</b> Determine the mean, mode, and median for a given set of data.	3		
<b>6S6</b> Determine the range for a given set of data.			
<b>6S7</b> Read and interpret graphs.	5		
<b>6S8</b> Justify predictions made from data.			
Test	1		
<b>Total Days</b>	<b>9</b>		
<b>Unit 2 – Number Sense</b>			
<b>6N1</b> Read and write whole numbers to trillions.	2		
<b>6N2</b> Define and identify the commutative and associative properties of addition and multiplication.			
<b>6N3</b> Define and identify the distributive property of multiplication over addition.			
<b>6N4</b> Define and identify the identity and inverse properties of addition and multiplication.	1		
<b>6N5</b> Define and identify the zero property of multiplication.			



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<b>6N23</b> Represent repeated multiplication in exponential form.	2		
<b>6N24</b> Represent exponential form as repeated multiplication.			
<b>6N25</b> Evaluate expressions having exponents where the power is an exponent of 1, 2, or 3.	1		
<b>6N22</b> Evaluate numerical expressions using Order of Operations (may include exponents of two or three).	5		
Review and test.	2		
<b>Total Days</b>	<b>18</b>		
<b>Unit 3 – Ratios, Proportions, Percents</b>			
<b>6N6</b> Understand the concept of rate.	1		
<b>6N7</b> Express equivalent ratios as a proportion.			
<b>6N8</b> Distinguish the difference between rate and ratio.			
<b>6N10</b> Verify the proportionality using the product of the means equals the product of the extremes.			
<b>6N9</b> Solve proportions using equivalent fractions.	2		



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<b>6N11</b> Read, write, and identify percents of a whole (0 percent to 100 percent).	2		
<b>6N26</b> Estimate a percent of a quantity (0 percent to 100 percent).			
<b>6A5</b> Solve simple proportions within context.	10		
<b>6N12</b> Solve percent problems involving percent, rate, and base.			
<b>6N27</b> Justify the reasonableness of answers using estimation (rounding).			
Review and test.	2		
<b>Total Days</b>	<b>19</b>		
<b>Unit 4 – Operations with Rational Numbers</b>			
<b>6N13</b> Define absolute value and determine the absolute value of rational numbers (including positive and negative).	2		
<b>6N14</b> Locate rational numbers on a number line (including positive and negative).			
<b>6N15</b> Order rational numbers (including positive and negative).	3		
<b>6N16</b> Add and subtract fractions with unlike denominators.	18		
<b>6N19</b> Identify the multiplicative inverse (reciprocal of a number).			



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<b>6N17</b> Multiply and divide fractions with unlike denominators.	18		
<b>6N18</b> Add, subtract, multiply, and divide mixed numbers with unlike denominators.			
<b>6N20</b> Represent fractions as terminating or repeating decimals.	2		
<b>6N21</b> Find multiple representations of rational numbers (fractions, decimals, and percents 0-100).			
Review and test.	2		
<b>Total Days</b>	<b>27</b>		
<b>Unit 5 – Algebra</b>			
<b>6A1</b> Translate two-step verbal expressions into algebraic expressions.	2		
<b>6A2</b> Use substitution to evaluate algebraic expressions (may include exponents of 1, 2, or 3).	1		
<b>6A6</b> Evaluate formulas for given input values (circumference, area, volume, distance, temperature).	2		
Quiz	1		
<b>Total Days</b>	<b>6</b>		



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Unit 6 – Geometry			
<b>6G1</b> Calculate the length of corresponding sides of similar triangles, using proportional reasoning. <b>6A5</b> Solve simple proportions within context.	2		
<b>6G2</b> Determine the area of triangles and quadrilaterals (squares, rectangles, rhombi, and trapezoids), and determine formulas.			
<b>6G3</b> Use a variety of strategies to find the area of regular and irregular polygons.	2		
<b>6G4</b> Determine the volume of rectangular prisms by counting cubes and develop the formula. <b>6M1</b> Measure capacity and calculate volume of a rectangular prism. <b>6M7</b> Estimate volume, area, and circumference (triangles, squares, rectangles, rhombi, and trapezoids). <b>6M8</b> Justify the reasonableness of estimates. <b>6M9</b> Determine personal references for capacity.	1		

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<b>6G5</b> Identify radius, diameter, chords, and central angles of a circle.	1		
<b>6G6</b> Understand the relationship between diameter and radius of a circle.	1		
<b>6G9</b> Understand the relationship between the circumference and diameter of a circle.	2		
<b>6G7</b> Determine the area and circumference of a circle using the appropriate formula. <b>6M7</b> Estimate volume, area, and circumference. <b>6M8</b> Justify the reasonableness of estimates. <b>6M9</b> Determine personal references for capacity.	3		
<b>6G8</b> Calculate the area of a sector of a circle given the measure of a central angle and the radius of a circle.	1		
Review and test.	2		
<b>Total Days</b>	<b>18</b>		
<b>Unit 7 – Measurement</b>			
<b>6M2</b>			

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Identify customary units of capacity (cups, pints, quarts, gallons). <b>6M3</b> Identify equivalent customary units of capacity (cups to pints, pints to quarts, quarts to gallons).	2		
<b>6M6</b> Determine the tool and technique to measure with an appropriate level of precision: capacity. <b>6M4</b> Identify metric units of capacity (liter, milliliter). <b>6M5</b> Identify equivalent metric units of capacity (milliliter to liter, liter to milliliter). <b>6M6</b> Determine the tool and technique to measure with an appropriate level of precision: capacity.	2		
Quiz	1		
<b>Total Days</b>	<b>5</b>		