



MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 7- Accelerated Marking Periods 1-4

Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
Unit 1 – Proportions, Algebra and Geometry					
Vocabulary: Ratio, Rate, Unit Rate, (Proportion, Cross Products, Polygon, Similar, Corresponding Parts, Congruent, Scale Factor, Percent, Percent Proportion, Part, Base, Percent Equation *6 th post-march*)					
4.1	7M5 7M6	<ul style="list-style-type: none"> Calculate unit pricing using proportions. Compare unit prices. 	1	SQ44, 6Q40, 7Q19, 8Q42	
4.4	6N9	<ul style="list-style-type: none"> Solve proportions using equivalent fractions. 	1	6 th Grade Test: 7Q5, 7Q28, 8Q24	
4.5	6G1	<ul style="list-style-type: none"> Calculate the length of the corresponding sides of similar triangles, using proportional reasoning. 	1	6 th Grade Test: 6Q20	
5.1 5.2	6N21	<ul style="list-style-type: none"> Find multiple representations of rational numbers (fractions, decimals, and percents from 0-100). 	1	6 th Grade Test: SQ1, 6Q8, 7Q15, 8Q2	
5.3	6N12	<ul style="list-style-type: none"> Solve percent problems involving percent, rate and base. 	1	6 th Grade Test: SQ26, 6Q33, 7Q9, 8Q30	
5.6	6N12	<ul style="list-style-type: none"> Solve percent problems involving percent, rate and base. 	1		
		Review and test	2		

Bold Standards – Indicates standards that are new to the 7th grade.

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Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
		Total	9		
Unit 2 – Measuring Area, Surface Area and Volume Vocabulary: Base, Altitude, Circle, Center, Radius, Diameter, Circumference, Pi, Complex Figure, Plane, Solid, Polyhedron, Edge, Face, Vertex, Prism, Pyramid, Volume, Cylinder, Complex Solid, Cone, Surface Area, Lateral Face, Slant Height, Lateral Area, Precision, Significant Digits					
7.1	7A6	<ul style="list-style-type: none"> Evaluate formulas for given input values (surface area, rate, and density problems). 	1	6 th Grade Test: 6Q26	
7.2	7A6 7G1	<ul style="list-style-type: none"> Evaluate formulas for given input values. Calculate the radius or diameter, given the circumference or the area of a circle. 	2	SQ20, 6Q19, 6Q29, 7Q28, 8Q12	
7.3	7A6	<ul style="list-style-type: none"> Evaluate formulas for given input values (surface area, rate, and density problems). 	1		
7.4	7G3	<ul style="list-style-type: none"> Identify the two-dimensional shapes that make up the faces and bases of three-dimensional shapes (prisms, cylinders, cones, and pyramids). 	2	SQ5, 6Q2, 6Q17, 6Q27, 7Q2, 7Q5, 8Q30	
7.5	7A6 7G2	<ul style="list-style-type: none"> Evaluate formulas for given input values (surface area, rate, and density problems). Calculate the volume of prisms and cylinders, using a given 	3	SQ36, 6Q32, 8Q35	

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		formula and a calculator.			
7.6	7A6	<ul style="list-style-type: none"> Evaluate formulas for given input values (surface area, rate, and density problems). 	1	8Q5	
7.7	7A6 7G3 7G4 7M11	<ul style="list-style-type: none"> Evaluate formulas for given input values (surface area, rate, and density problems). Identify the two-dimensional shapes that make up the faces and bases of three-dimensional shapes (prisms, cylinders, cones, and pyramids). Determine the surface area of prisms and cylinders, using a calculator and a variety of methods. Estimate surface area. 	3	6Q36, 7Q33 SQ33, 8Q23	
7.8	7A6 7M11	<ul style="list-style-type: none"> Evaluate formulas for given input values. Estimate surface area. 	1	SQ33, 8Q23	
7.9	7M9	<ul style="list-style-type: none"> Determine the tool and technique to measure mass, with an appropriate level of precision. 	1	SQ8, 7Q29, 8Q27	
		Review and test	3		
		Total	17		

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Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
Unit 3 – Probability					
Vocabulary: Outcome, Sample Space, Random, Simple Event, Probability, Complimentary Events, Tree Diagram, Fundamental Counting, Principle, Compound Event, Independent Events, Dependent Events, Experimental Probability, Theoretical Probability, Samples of All Types, Population Sample					
8.1	7S8 7S10	<ul style="list-style-type: none"> • Interpret data to provide the basis for predictions and to establish experimental probabilities. • Predict the outcome of an experiment. 	2	SQ37, 6Q26, 6Q38, 7Q24, 8Q22, SQ15, SQ18, 7Q17, 7Q21, 8Q10, 8Q18	
8.2	7S8 7S10 7S12	<ul style="list-style-type: none"> • Interpret data to provide the basis for predictions and to establish experimental probabilities. • Predict the outcome of an experiment. • Compare actual results to predicted results. 	2	8Q16	
8.5	7S8 7S10 7S12	<ul style="list-style-type: none"> • Interpret data to provide the basis for predictions and to establish experimental probabilities. • Predict the outcome of an experiment. • Compare actual results to predicted results. 	1		
8.6	7S8	<ul style="list-style-type: none"> • Interpret data to provide the basis for predictions and to establish experimental probabilities. 	1		

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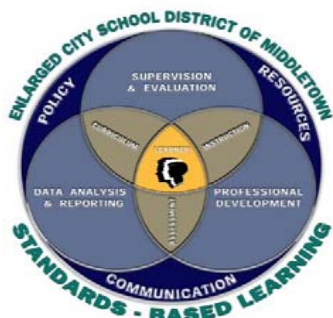


Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
	7S9 7S10 7S11 7S12	<ul style="list-style-type: none"> Compare actual results to predicted results. Predict the outcome of an experiment. Design and conduct an experiment to test predictions. Compare actual results to predicted results. 		6Q30, 8Q28	
8.7	7M10 7S9	<ul style="list-style-type: none"> Identify the relationships between relative error and magnitude when dealing with large numbers (ex: money and population). Compare actual results to predicted results. 	2		
		Review and test	2		
		Total	10		
Unit 4 – Statistics					
Vocabulary: Histogram, Circle Graph, Mean, Median, Mode, Range, Measure of Variation, Quartiles, Outlier, Box-and-Whisker Plot, Biased Sample					
Supplement	7S3	<ul style="list-style-type: none"> Convert raw data into double-bar and double-line graphs. 	2	SQ34, 7Q36	
9.1	7S1 7S6	<ul style="list-style-type: none"> Identify and collect data using a variety of methods. Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs or circle graphs). 	1	*Read histogram only*	

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9.2	7M8 7S1 7S2 7S6	<ul style="list-style-type: none"> • Draw central angles in a given circle using a protractor (circle graphs). • Identify and collect data using a variety of methods. • Display data in a circle graph. • Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs or circle graphs). 	2	6Q34, 8Q37, SQ21, SQ27, 6Q7, 6Q21, 7Q1, 7Q22, 8Q8, 8Q21	
9.3	7S1 7S6	<ul style="list-style-type: none"> • Identify and collect data using a variety of methods. • Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs or circle graphs). 	1		
9.4	7S5	<ul style="list-style-type: none"> • Select the appropriate measure of central technology. 	1		
9.5	7S4	<ul style="list-style-type: none"> • Calculate the range of a set of data. 	1	SQ12, 6Q5, 7Q4, 7Q13, 8Q14	
9.6	7S1 7S6	<ul style="list-style-type: none"> • Identify and collect data using a variety of methods. • Read and interpret data represented graphically (pictograph, bar graph, histogram, line graph, double line/bar graphs or circle graphs). 	1	*Read Box and Whiskers only*	

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9.7	7S1 7S6 7S7	<ul style="list-style-type: none"> Identify and collect data using a variety of methods. Read and interpret data represented graphically. Identify and explain misleading statistics and graphs. 	1	7Q37	
		Review and test	2		
		Total	12		
<p>From this point forward: Questions are notated in the following manner: the first number indicates the test year (or s for sample test), Q for question and the number of the item on the test. Example: 8Q18 is the 2008 test question 18. Those questions indicated in <i>Italics</i> can be found on the 7th grade test. Where the same standard repeats within a unit the questions are not re-printed.</p> <p>Begin using the 8th grade test</p>					
<p>Unit 5 – The Tools of Algebra Vocabulary: Numerical Expressions, Evaluate, Order of Operations, Grouping Symbols, Variable, Algebraic Expressions, Substitution of Equality, Commutative Property of Addition, Commutative Property of Multiplication, Associative Property of Addition, Associative Property of Multiplication, Additive Identity, Multiplicative Identity, Multiplicative Property of Zero, Counter Example, Simplify, Equation, Open Sentence, Solution, Coordinate System, Y-Axis, X-Axis, Origin, Coordinate Plane, Ordered Pair, X Coordinate, Y Coordinate</p>					
1.2	8A2 7N11 7A1	<ul style="list-style-type: none"> Write verbal expressions that match given mathematical expressions. Simplify expressions using order of operations. Use substitution to evaluate algebraic expressions. 	1	SQ19, 6Q19, 8Q2, SQ10, SQ28, 6Q3, 6Q9, 8Q11	

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1.3				SQ2, SQ17, 6Q8, 6Q11, 6Q14, 7Q11, 8Q33	
1.4	6N2 6N4 6N5	<ul style="list-style-type: none"> Define and identify the commutative and associate properties of + and x. Define and identify the identity and inverse properties of + and x. Define and identify the 0 property of x. 	1	6 th Grade Test: 6Q9, 7Q8, 6Q1, SQ7, 8Q5	
1.5	6A3	<ul style="list-style-type: none"> Translate 2-step verbal sentences into algebraic equations. 	1	6Q23, 7Q14, 8Q15	
1.6	8A4	<ul style="list-style-type: none"> Create a graph given a description or an expression for a situation involving linear or nonlinear relationships. 	1		
		Quiz	1		
		Total Days	5		
Unit 6 – Integers					
Vocabulary: Average, Mean, Quadrants					
2.2 2.3	7N12 7N13	<ul style="list-style-type: none"> Add, subtract, multiply, and divide integers. Add and subtract two integers (without the use of the number line). 	2	SQ1, 6Q1, 6Q15, 6Q33, 7Q8, 8Q25, 7Q31, SQ31	

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2.4 2.5 2.6	7N12 8A16 8A15	<ul style="list-style-type: none"> • Add, subtract, multiply, and divide integers. • Find a set of ordered pairs to satisfy a linear numerical pattern then plot ordered pairs and graph the line. • Understand that numerical information can be expressed in multiple ways; arithmetically, algebraically, and graphically. 	1	7Q1, 6Q1, 6Q15, 6Q33, 7Q8, 8Q25, 8Q28	
		Quiz	1		
		Total Days	4		
Unit 7 – Equations					
Vocabulary: Equivalent Expressions, Distributive Property, Term, Coefficient, Like Terms, Constant, Simplest Form, Simplifying the Expression, Inverse Operations, Subtraction Property of Equality, Equivalent Equations, Addition Property of Equality, Division Property of Equality, Multiplication Property of Equality, Two-Step Equations					
3.1 3.2	6N3 8PS3	<ul style="list-style-type: none"> • Define and identify the distributive property of x over $+$. • Understand and demonstrate how written symbols represent mathematical idea. 	2		
3.3P 3.3 3.4	5A5	<ul style="list-style-type: none"> • Solve and explain simple one-step equations using inverse operations involving whole numbers. 	1	6 th Grade Test: 7Q27	

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Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
3.6	8A1 8A2	<ul style="list-style-type: none"> Write verbal expressions that match given mathematical expressions. Write and solve two-step equations. 	2	SQ13, SQ14, SQ20, SQ42, 6Q15, 6Q22, 6Q26, 7Q26, 7Q33, 8Q8, SQ10, 6Q19, 6Q28	
		Review and test	1		
		Total Days	10		
Unit 8 – Algebra and Rational Numbers					
Vocabulary: Even Numbers, Odd Numbers, Factors, Divisible, Monomial, Base, Exponent, Power, Standard Form, Expanded Form, Prime Number, Composite Number, Prime Factorization, Factor Tree, Venn Diagram, Greatest Common Factor, Simplest Form, Algebraic Fraction, Product of Powers, Negative Exponents					
4.1	8A10	<ul style="list-style-type: none"> Factor algebraic expressions using GCF. 	1		
4.2	8N1 8N2	<ul style="list-style-type: none"> Develop and apply laws of exponents for multiplication and division. Evaluate expressions with integral exponents. 	2	SQ5	
4.3	8A10	<ul style="list-style-type: none"> Factor algebraic expressions using GCF. 	1	6Q1, 8Q23	
4.4	8A10	<ul style="list-style-type: none"> Factor algebraic expressions using GCF. 	2		

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4.5	8A6	<ul style="list-style-type: none"> • Multiply and divide monomials. 	1	6Q7, 7Q10, 7Q17, 8Q30	
4.6	8A6 8N1	<ul style="list-style-type: none"> • Multiply and divide monomials. • Develop and apply the laws of exponents for multiplication and division. 	1		
4.7	8N2	<ul style="list-style-type: none"> • Evaluate expressions with integral exponents. 	1	SQ26, 7Q11, 8Q18	
		Review and test	1		
		Total Days	12		
Unit 9 – Percents					
Vocabulary: Percent, Percent Proportion, Base, Part, Cross-Products, Percent Equation, Discount, Simple Interest, Principal, Rate (of interest), Percent of Change, Percent of Increase, Percent of Decrease					
6.4	8N3 8N5	<ul style="list-style-type: none"> • Read, write, and identify percents <1% and >100%. • Estimate a percent of quantity given an application. 	1	SQ11, SQ23, 6Q13, 7Q41, 8Q14	
6.5P	8N5	<ul style="list-style-type: none"> • Estimate a percent of quantity, given an application. 	1		
6.5	8N3 8N5	<ul style="list-style-type: none"> • Read, write, and identify percents <1% and >100%. • Estimate a percent of quantity given an application. 	1		

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6.6	8N3 8N5	<ul style="list-style-type: none"> Read, write, and identify percents <1% and >100%. Estimate a percent of quantity given an application. 	1	6Q44, 7Q14, SQ19	
6.7	8N4 8N5	<ul style="list-style-type: none"> Apply percents to: tax, percent of change, simple interest, sale price, commission, interest rates, and gratuity. Estimate a percent of quantity given an application. 	3	SQ17, SQ40, 6Q4, 6Q28, 6Q39, 7Q2, 7Q8, 7Q31, 8Q10, 8Q29, 8Q40	
6.8	8N4	<ul style="list-style-type: none"> Apply percents to: tax, percent of change, simple interest, sale price, commission, interest rates, and gratuity. 	2		
		Review and test	1		
		Total Days	11		
Unit 10 – Linear Equations, Inequalities, and Functions					
Vocabulary: Null (or empty), Identity, Inequality					
7.1P	8A5	<ul style="list-style-type: none"> Use physical models to perform operations with polynomials. 	1	SQ11, SQ23, 6Q13, 7Q41, 8Q14	
7.1 7.2	7A4	<ul style="list-style-type: none"> Solve multi-step equations by combining like terms, using the distributive property, or moving variables to one side of the equation. 	2	SQ8, SQ24, SQ33, SQ39, 6Q11, 6Q18, 6Q24, 6Q31, 6Q38, 6Q41, 7Q5, 7Q30, 7Q45, 8Q16	

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7.3	8A1	<ul style="list-style-type: none"> Translate verbal sentences into algebraic expressions. 	1	RM7	
		Review and test	1		
		Total Days	6		
Unit 11 – Functions and Graphing					
Vocabulary: Linear, Nonlinear					
Supplement	8A4	<ul style="list-style-type: none"> Create a graph given a description or an expression for a situation involving linear or nonlinear relationships. 	1	7Q34	
Supplement	8A3	<ul style="list-style-type: none"> Describe a situation involving relationships that matches a given graph. 	1	7Q13, 8Q39	
		Quiz	1		
		Total Days	4		
Unit 12 – Two-Dimensional Figures (Geometry)					
Vocabulary: Parallel Lines, Transversal, Interior Angles, Exterior Angles, Alternate Interior Angles, Alternate Exterior Angles, Corresponding Angles, Vertical Angles, Adjacent Angles, Complementary Angles, Supplementary Angles, Perpendicular Lines, Congruent Transformation, Translation, Reflection, Rotation, Dilation, Quadrilateral					

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3.4	7G5 7G6 7G8 7G9	<ul style="list-style-type: none"> Identify the right angles, hypotenuse, and legs of a right triangle. Explore the relationship between the lengths of the three sides of a right triangle to develop the Pythagorean Theorem. Use the Pythagorean Theorem. Determine whether a given triangle is a right triangle by applying the Pythagorean Theorem. 	2	7 th Grade Text: 8Q6, SQ18, SQ31, 6Q27, 6Q32, 7Q6, 7Q18, 7Q42, 8Q25, 8Q36, 6Q35	
3.5	7G5 7G6 7G8 7G9	<ul style="list-style-type: none"> Identify the right angles, hypotenuse, and legs of a right triangle. Explore the relationship between the lengths of the three sides of a right triangle to develop the Pythagorean Theorem. Use the Pythagorean Theorem. Determine whether a given triangle is a right triangle by applying the Pythagorean Theorem. 	2	7 th Grade Text	
3.6	7G8	<ul style="list-style-type: none"> Use the Pythagorean Theorem to determine the unknown length of a side of a right triangle. 	2	7 th Grade Text	

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Grade: 7- Accelerated Marking Periods 1-4

Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
10.1	8G1 8G2 8G3 8G6 8G4 8G5 8A12	<ul style="list-style-type: none"> Identify pairs of vertical angles as congruent. Identify pairs of supplementary and complementary angles. Calculate the missing angle measurements when given two intersecting lines and an angle. Calculate the missing angle in a supplementary or complementary pair. Determine angle pair relationships when give two parallel lines cut by a transversal. Calculate the missing angle measurements when given two parallel lines cut by a transversal. Apply algebra to determine the measure of angles formed by or contained in parallel line cut by a transversal and by intersecting lines. 	2 (1 st 4 standards) 3 (last 3 standards)	SQ15, SQ21, 6Q2, 6Q17, 7Q4, 8Q1, SQ1, SQ9, SQ43, 6Q10, 7Q15, 7Q16, 8Q22, 8Q9, SQ3, SQ6, SQ25, 6Q3, 6Q25, 7Q25, 8Q13, 7Q9, 8Q15, 8Q37, SQ41, 6Q20, 6Q29, 7Q28, 8Q3, SQ37, SQ45, 6Q36, 7Q38, 7Q43, 8Q31, 8Q44	
10.3 10.3F	8G7 8G8 8G9 8G10	<ul style="list-style-type: none"> Describe and identify transformations in the plane using proper function notation (rotations, reflections, dilations, translations). Draw the image of a figure under rotations of 90 degrees and 180 degrees. Draw the image of a figure under a reflection over a given line. Draw the image of a figure under translation. 	4	6Q8, 6Q21, 6Q43, 7Q1, 7Q29, 8Q32, SQ32, 8Q17, 7Q44, SQ38, 6Q37, 7Q37, 8Q41, SQ35, 8Q43, 8Q26	

Bold Standards – Indicates standards that are new to the 7th grade.

***Standards** – Indicates standards that are post – March objectives.

Additional Resources – located in 7th grade Teacher Resource Binder and publisher resource booklets. Past state test questions are noted in each Unit matched to the state standard found within the curriculum. Questions are notated in the following manner: the first number indicates the test year (or s for sample test), Q for question and the number of the item on the test. Example: 8Q18 is the 2008 test question 18. Those questions indicated in italics can be found on the 8th grade test. Where the same standard repeats within a unit the questions are not re-printed.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 7- Accelerated Marking Periods 1-4



Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
	8G11 8G12	<ul style="list-style-type: none"> Draw the image of a figure under dilation. Identify the properties preserved and not preserved under the 4 transformations. 			
10.4	5G4 5G5	<ul style="list-style-type: none"> Classify quadrilaterals by properties of their angles and sides. Know that the sum of the interior angles of a quadrilateral is 360 degrees. 	2		
		Review and test	1		
		Total Days	19		
Unit 13 – Polynomials and Nonlinear Functions					
Vocabulary: Polynomial, Binomial, Trinomial, Degree					
13.1	7A3	<ul style="list-style-type: none"> Identify a polynomial as an algebraic expression containing one or more terms. 	1	8Q24	
13.1F	8A5	<ul style="list-style-type: none"> Use physical models to perform operations with polynomials. 			
13.2	8A7	<ul style="list-style-type: none"> Add and subtract polynomials with integer coefficients. 	1	SQ4, SQ10, SQ22, SQ28, 6Q9, 7Q12, 7Q23, 8Q27, 8Q35	
13.3	8A7	<ul style="list-style-type: none"> Add and subtract polynomials with integer coefficients. 	1		

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MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 7- Accelerated Marking Periods 1-4



Resource	NYS Standard	Performance Indicator	# of Days	Notes	Compass Learning Resources
13.4	8A6 8A8 8A9	<ul style="list-style-type: none"> • Multiply and divide monomials. • Multiply a binomial by a monomial or a binomial. • Divide a polynomial by a monomial. 	3	7Q7, 7Q10, 7Q17, 8Q30, SQ7, SQ16, 6Q5, 7Q20, 7Q24, 8Q11, 8Q5, SQ2, 8Q7	
Supplement	8A11	<ul style="list-style-type: none"> • Factor a trinomial in the form $ax^2 + bx + c$; $a=1$ & c having no more than 3 sets of factors. 	2	SQ27	
		Review and test	1		
		Total Days	10		
Unit 14 – Measurement					
Vocabulary: Metric System, Customary System					
PS13	8M1	<ul style="list-style-type: none"> • Solve equations/proportions to convert equivalent measurements. 	1	SQ36, 6Q12, 6Q34, 7Q22	
PS14	8M1	<ul style="list-style-type: none"> • Solve equations/proportions to convert equivalent measurements. 	1		
		Quiz	1		
		Total Days	3		

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