MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
Measurement Strand Students will determine what can be measured and how, using appropriate methods and formulas. **Note: Entire strand must be taught before State Test in May.**	*Units of Measurement* ****3.M.1** Select tools and units (customary) appropriate for the length measured.	1-2 days	Live Odyssey Link Measurement – Tools for length, weight, capacity 21.2 pgs. 456-457	Q4 #1, 3
	****3.M.2** Use a ruler/yardstick to measure to the nearest standard unit (whole and ½ inches, whole feet, and whole yards).	2 days	21.2 pgs. 456-457 Length	Q4 # 5
	****3.M.3** Measure objects, using ounces and pounds.	2 days	21.4 pgs. 460-461 Capacity	Q4 # 12
	****3.M.4** Recognize capacity as an attribute that can be measured.	½ day	21.3 pgs. 458-459	
	****3.M.5** Compare capacities (e.g., Which contains more? Which contains less?)	½ day	21.3 pgs. 458-459	Q4 # 2
	****3.M.6** Measure capacity, using cups, pints, quarts, and gallons.	2 days	21.3 pgs. 458-459	

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
	****3.M.10** Select and use standard (customary) and non-standard units to estimate measurements.	1 day	21.1 pgs. 454-455 22.2 pgs. 456-457	

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
Number Sense and Operation Strand	*Number Systems* **3.N.14** Explore equivalent fractions (1/2, 1/3, 1/4)	2 days 3 days	25.2 pgs. 558-559 Equivalent Fractions Equivalent Fraction Tools	Q4 # 4
	3.N.15 Compare and order unit fractions (1/2, 1/3, 1/4) and find their approximate locations on a number line.		25.4 pgs. 562-563	Q4 # 6, 7, 8
Students will understand meanings of operations and procedures, and how they relate to one another.	**3.N.19** Develop fluency with single-digit multiplication facts.	1 day	Chapters 10, 11, 12	Q4 # 10
	3.N.20 Use a variety of strategies to solve multiplication problems with factors up to 12x12.	1 day 1 day	Chapters 10, 11, 12	
	3.N.22 Demonstrate fluency and apply single-digit division facts.	1 day	Chapters 14, 15	Q4 #10
	3.N.23			

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
	Use tables, patterns, halving, and manipulatives to provide meaning for division. **3.N.24** Develop strategies for selecting the appropriate computational and operational method in problem solving situations.	1 day	13.1 pgs. 278-279 20.4 pgs. 438-439	Q4 #11
Problem Solving Strand Students will build new mathematical knowledge through problem solving.	**3.PS.1** Explore, examine, and make observations about a social problem or mathematical situation. **3.PS.2** Understand that some ways of representing a problem are more helpful than others. **3.PS.3** Interpret information correctly,		Problem Solving Chapter 16 pgs. 356-357 Problem Solving Chapter 20 pgs. 442-443 More Problem Solving 8.1 pgs. 160-161 8.3 pgs. 166-167 8.4 pgs. 168-169 8.7 pgs. 174-175	Q4 # 9

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
	identify the problem, and generate possible solutions.			
Students will solve problems that arise in mathematics and in other contexts.	**3.PS.4** Act out or model with manipulatives activities involving mathematical content from literature. **3.PS.5** Formulate problems and solutions from everyday situations. **3.PS.7** Represent problem situations in oral, written, concrete, pictorial, and graphical forms.		8.1 pgs. 160-161 8.3 pgs. 166-167 8.4 pgs. 168-169 8.7 pgs. 174-175	Q4 # 9
Students will apply and adapt a variety of appropriate strategies to solve problems.	**3.PS.9** Use trial and error to solve problems. **3.PS.11** Make pictures/diagrams of problems.		Chapter 16, pg. 346 Chapter 20, pg. 433 16.2 pgs. 346-347	Q4 # 11

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards Key Ideas, Major Understandings, Performance Indicators, Guides Competencies		Pacing	Resources Print, Visual, Technology, Manipulatives	Assessment Evidence & Scoring
	3.PS.12 Use physical objects to model problems. **3.PS.16** Analyze problems by identifying relationships. **3.PS.19** State a problem in their own words.		12.5 pgs. 260-261, Quarter 2 4.3 pgs. 78-79, Quarter 2 19.1 pgs. 410-411 19.4 pgs. 418-419 16.4 pgs. 352-353 19.6 pgs. 424-425 Chapter 8, pg. 165 Chapter 16, pg. 346 Chapter 20, pg. 433	
Students will monitor and reflect on the process of mathematical problem solving.	**3.PS.22** Discuss the efficiency of different representations of a problem. **3.PS.24** Recognize invalid approaches. **3.PS.25** Determine whether a solution is reasonable in the context of the original problem.		8.1 pgs. 160-161 8.3 pgs. 166-167 8.4 pgs. 168-169 8..7 pgs. 174-175 20.4 pgs. 438-439 21.6 pgs. 466-467, Quarter 2	

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
Reasoning and Proof Strand Students will make and investigate mathematical conjectures.	**3.RP.3** Investigate the use of knowledgeable guessing by generalizing mathematical ideas. **3.RP.4** Make conjectures from a variety of representations.		16.2 pgs. 346-347 8.1 pgs. 160-161 8.3 pgs. 166-167 8.4 pgs. 168-169 8.7 pgs. 174-175	
Students will develop and evaluate mathematical arguments and proofs.	**3.RP.6** Develop and explain an argument using oral, written, concrete, pictorial, and/or graphical forms. **3.RP.8** Support an argument by trying many cases.		8.1 pgs. 160-161 8.3 pgs. 166-167 8.4 pgs. 168-169 8.7 pgs. 174-175 Chapter 16, pg. 346 Chapter 20, pg. 433 Use alternative resources	

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
Communications Strand Students will organize and consolidate their mathematical thinking through communication.	**3.CM.1** Understand and explain how to organize their thought process. **3.CM.8** Consider strategies used and solutions found in relation to their own work.		Chapter 20, pg. 433 19.2 pgs. 412-413 19.4 pgs. 418-419 19.6 pgs. 414-415 20.1 pgs. 430-431 20.4 pgs. 438-439	
Students will use the language of mathematics to express mathematical ideas precisely.	**3.CM.9** Increase their use of mathematical vocabulary and language. **3.CM.10** Describe objects, relationships, solutions and rationale using appropriate vocabulary.		Vocabulary included at beginning of every lesson. Vocabulary included at beginning of every lesson.	

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards **Key Ideas, Major Understandings, Performance Indicators, Guides** **Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring**
	3.CM.11 Decode and comprehend mathematical visuals and symbols to construct meaning.		Chapter 16, pg. 346	
Connections Strand Students will recognize and use connections among mathematical ideas.	**3.CN.1** Recognize, understand, and make connections in their everyday experiences to mathematical ideas. **3.CN.3** Connect and apply mathematical information to solve problems.		Chapter 16, pg. 346 Chapter 20, pg. 433 Throughout the curriculum	
Students will understand how mathematical ideas interconnect and build on one another to produce a coherent whole.	**3.CN.5** Model situations with objects and representations and be able to make observations.		Unit 8, pgs. 356-357 Unit 10, pgs. 442-443	
Representation Strand Students will create and use	**3.R.1** Use verbal and written language, physical models, drawing charts,		8.1 pgs. 160-161 8.3 pgs. 166-167	

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards Key Ideas, Major Understandings, Performance Indicators, Guides Competencies		Pacing	Resources Print, Visual, Technology, Manipulatives	Assessment Evidence & Scoring
representations to organize, record, and communicate mathematical ideas.	graphs, tables, symbols, and equations as representations. **3.R.3** Recognize and use external mathematical representations with each new operation. **3.R.4** Use standard and nonstandard representations with accuracy and detail.		8.4 pgs. 168-169 8.7 pgs. 174-175 Chapter 16, pg. 346 Chapter 20, pg. 433 19.1 pgs. 410-411 19.4 pgs. 418-419 Chapter 21, Quarter 2	
Students will select, apply, and translate among mathematical representations to solve problems.	**3.R.6** Connect mathematical representations with problem solving. **3.R.7** Construct effective representations to solve problems.		8.1 pgs. 160-161 8.3 pgs. 166-167 8.4 pgs. 168-169 8.7 pgs. 174-175 Chapter 16, pg. 346 Chapter 20, pg. 433	

** Item must be taught before NYS Math Test in May.

MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 3
Quarter: 4

Standards	Resources	Assessment
Key Ideas, Major Understandings, Performance Indicators, Guides	**Print, Visual, Technology,**	**Evidence & Scoring**
Competencies	**Pacing** **Manipulatives**	

** Item must be taught before NYS Math Test in May.