MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 2
Quarter: 2

Standards **Key Ideas, Major Understandings, Performance Indicators, Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring Guides**
Algebra Strand Students will perform algebraic procedures accurately.	*Equations and Inequalities* **2.A.1** Use the symbols < >, = (with or without the use of a number line) to compare whole numbers up to 100.	3 days	******See Math Activities in the Teacher Manual** Lesson 6.1 pgs. 95-96 Enrichment pg. 74 Extra Practice pgs. 101-102, 234, 403 Game Zone pg. 109 Center Activities T: 229G Live Odyssey Link ** Math Toolkit – Number Line Compare Whole Numbers (Challenge – more than 100)	****NY Math Asse (NYMA) Book And Math Asses Guide (AG)** NYMA pg. 41 Q2-# 19
Measurement Strand Students will use units to give meaning to measurements.	**2.M.9** Tell time to the half hour and five minutes using both digital and analog clocks.	10 days	Telling Time http://www.teachertube.com/viewVideo.php?video_id=120742 Chapter 9 Telling Time Tools	NYMA pg. 58-60 AG Form A pg. 1 AG Form B pg. 1 Q2-# 23, 24, 25
Statistics and Probability Strand Students will collect, organize, display, and analyze data.	*Collection of Data* **2.S.1** Formulate questions about themselves and their surroundings. **2.S.2** Collect and record data (using tallies) related to the question.	1 day	story pg. 187 Chapter 11-Lessons 1-4 Story pg. 187 Lesson 11.2 pgs. 191-192 Tally Tables Problem Solving pg. 203	Q2-# 15 NYMA pg. 68-71 AG Form A pg. 1 AG Form B pg. 1
	Organization and Display of Data **2.S.3** Display data in pictographs and bar graphs using concrete objects or representations of the object. *Analysis of Data*	5 days 1 day	Story pg. 187 Chapter 11-Lessons, 1,3,4,6 Teacher Resources pgs. 187c-187d Problem Solving pg. 203 Writing pg. 204 Graphs – Pictographs and Bar Graphs	Chapter 11-Test/F pgs. 205-206 Q2-# 9, 14 NYMA pg. 68-71

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	2.S.4 Compare and interpret data in terms of describing quantity (similarity or differences).		Chapter 11-Lessons 1-4, 6, 7 Problem Solving pg. 203 Lesson 22.5 Extra Practice pg. 519 Graphs - Tools	AG Form A pg. 1 AG Form B pg. 1 Review/Test pg. 2 Q2-# 10, 11
Students will make predictions that are based upon data analysis.	*Predictions from Data* **2.S.5** Discuss conclusions and make predictions from graphs.		Chapter 11-Lessons 1-4, 6, 7	NYMA pg. 68-71 AG Form A pg. 1 AG Form B pg. 1 Q2-# 12, 13
Number Sense and Operation Strand Students will understand numbers, multiple ways of representing numbers, relationships among numbers, and number systems.	*Number Systems* **2.N.9** Name the number before and after a given number, and name the number(s) between two given numbers up to 100 (with and without the use of a number line or a hundreds chart). **2.N.10** Use and understand verbal ordinal terms. **2.N.11** Read, written, ordinal terms (first through ninth) and use them to represent ordinal relations. **2.N.13** Recognize the meaning of zero in the place value system (0-100).	2 days 1 day 1 day 2 days	Lesson 6.2 pgs. 97-98 Hundreds Chart - Tool http://player.discoveryeducation.com/index.cfm?guidAssetId=D3EC72BB-ACB0-4005-91B8-97A447D6C8C4&blnFromSearch=1&productcode=US Lesson 6.4 pgs. 103-104 Lesson 6.6 pgs. 107-108 Read Aloud TE: MA6-MA7 Ordinal Terms	Q2-# 16, 17, 18 NYMA pg. 42, 43 AG Form A pg. 8 AG Form B pg. 8 Q2-# 20, 21 NYMA pg. 44 AG Form A pg. 8 AG Form B pg. 8 . Q2-# 7, 8 Q2-# 1, 2, 4, 6

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	2.N.14 Use concrete materials to justify a number as odd or even. **2.N.6** Develop and understanding of the base ten system: 10 ones = 1 ten 10 tens = 1 hundred 10 hundreds = 1 thousand **2.N.7** Use a variety of strategies to compose and decompose two-digit numbers.	3 days 18 days	Zero as Placeholder Lesson 6.5 pgs. 105-106 Problem Solving pgs. 147-148. ** Math Toolkit – Base ten tool Chapter 5-Lesson 1-3, 7.3 pgs. 119-120 Chapter 21-Lessons 1-5 Story pgs. 75-76, 395-396 Problem Solving pgs. 89-90, 409 Writing for Math pg. 410 Technology Link pgs. 110, 428 Enrichment pg. 152 Game Zone pgs. 219, 427 Base Ten Exploratory – (Expanded Form)	NYMA pg. 45 Form A pg. 87, 88 AG Form B pg. 8 Q2-# 3 NYMA pg. 35-37 130-132 AG Form A pg. 7 AG Form B pg. 8
Students will recognize, use and represent algebraically patterns, relations, and functions.	*Patterns, Relations, and Functions* **2.A.2** Describe and extend increasing or decreasing (+,-) sequences and patterns (numbers or objects up to 100).		Lesson 6.3 pgs. 99-100	Q2-# 22(A)
Problem Solving Strand Students will build new mathematical knowledge through problem solving.	**2.PS.2** Interpret information correctly, identify the problem, and generate possible solutions.		Problem of the Day Book Leveled Problem Solving Book	Math Journals
Students will solve problems that arise in mathematics and in other contexts.	**2.PS.3** Act out or model with manipulatives activities involving mathematical content from literature and/or story telling.		Problem of the Day Book Leveled Problem Solving Book	Math Journals Anecdotal Record

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Students will apply and adapt a variety of appropriate strategies to solve problems.	**2.PS.7** Compare and discuss ideas for solving a problem with teacher and/or students to justify their thinking. **2.PS.8** Use manipulatives (e.g., tiles, blocks) to model the action in problems. **2.PS.9** Use drawings/pictures to model the action in problems.		Problem of the Day Book Leveled Problem Solving Book Problem of the Day Book Leveled Problem Solving Problem of the Day Book Leveled Problem Solving	Anecdotal Record Anecdotal Record Math Journals
Students will monitor and reflect on the process of mathematical problem solving.	**2.PS.10** Explain to others how a problem was solved, giving strategies and justifications.		Problem of the Day Book Leveled Problem Solving Book	Anecdotal Record Q3-# 6
Students will compute accurately and make reasonable estimates.	*Estimation* **2.N.22** Estimate the number in a collection to 100 and then compare by counting the actual items in the collection.		Lesson 5.5 pgs. 85-86 Center Activity TE: 75H	Math Journals