MIDDLETOWN MATH SCOPE & SEQUENCE

Grade: 4
Quarter: 3

Standards **Key Ideas, Major Understandings, Performance Indicators, Competencies**		**Pacing**	**Resources** **Print, Visual, Technology, Manipulatives**	**Assessment** **Evidence & Scoring Guides**
Number Sense and Operation Strand Students will understand meanings of operations and procedures, and how they relate to one another.	*Fractions* **4.N.7** Develop an understanding of fractions as locations on number lines and as divisions of whole numbers. **4.N.8** Recognize and generate equivalent fractions (halves, fourths, thirds, fifths, sixths, and tenths) using manipulatives, visual models, and illustrations. **4.N.9** Use concrete materials and visual models to compare and order unit fractions or fractions with the same denominator (with and without the use of a number line). **4.N.23** Add and subtract proper fractions with common denominators.	15 15	Chapter 21 Live Odyssey Link Fractions - Equivalent Fractions (Part of a set or whole) Fractions - tools Lesson 23.1 and 24.1 Add and Subtract Fractions	Q = Quarterly Q(quarter).(question #) *Exploration Activity Guide (EAG):* Activity 21 Q3.4 Q3.11 Q3.16 Q3.12 Q3.14

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				Q3.15 *EAG:* Activity 23 *EAG:* Activity 24
Measurement Strand Students will determine what can be measured and how, using appropriate methods and formulas.	*Units of Measurement* **4.M.1** Select tools and units (customary and metric) appropriate for the length being measured. **4.M.2** Use a ruler to measure to the nearest standard unit (whole, ½ and 1/4 inches, whole feet, whole yards, whole centimeters, and whole meters). **4.M.3** Know and understand equivalent standard units of length: 12 inches = 1 foot 3 feet = 1 yard	15	Chapter 17 and Chapter 18 Live Odyssey Link Length Length Tools Equivalent Lengths	Q3.5 Q3.7 Q3.9 Q3.13

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	4.M.4 Select tools and units appropriate to the mass of the object being measured (grams and kilograms)		Mass Mass - tools	Q3.8
	4.M.5 Measure mass, using grams.			Q3.6
	4.M.6 Select tools and units appropriate to the capacity being measured (milliliters and liters).		Capacity Capacity - tools	
	4.M.7 Measure capacity, using milliliters and liters.			Q3.10
				EAG: Activity 18

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Measurement Strand Students will determine what can be measured and how, using appropriate methods and formulas.	*Patterns, Relations, and Functions* **4.A.4** Describe, extend, and make generalizations about numeric (+, -, x, /) and geometric patterns.	10	Pgs. 226-227, 232 Use alternate resources Pattern Rules Pattern Rules - tools	Q3.17 Q3.18
Geometry Strand Students will use visualization and spatial reasoning to analyze characteristics and properties of geometric shapes.	*Shapes* **4.G.1** Identify and name polygons, recognizing that their names are related to the number of sides and angles (triangle, quadrilateral, pentagon, hexagon, and octagon). **4.G.2** Identify points and line segments when drawing a plane figure. **4.G.3** Find perimeter of polygons by	10	Chapter 19-Lesson 19.2 pgs. 434-437 Shapes Shapes - tools Chapter 19-Lesson 19.3 pgs. 438-439	Q3.19 *EAG:* Activity 19 Q3.20

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	adding sides. **4.G.4** Find the area of a rectangle by counting the number of squares needed to cover the rectangle. **4.G.5** Define and identify vertices, faces, and edges of three-dimensional shapes.		Line Segments and Points Line Segments and Points - tools Lesson 20.4, pgs. 466-469 Use alternate resources Perimeter Perimeter - tools Lesson 20.6, pgs. 474-477 Use alternate resources Area Tutorial Area Area - Tools Lesson 19.1, pgs. 430-432 Use alternate resources. Vertices, Faces and Edges Vertices, Faces and Edges - tools	Q3.2 Q3.1 Q3.3