

MIDDLE TOWNSHIP PUBLIC SCHOOLS  
 CAPE MAY COURT HOUSE, NJ 08210  
 CURRICULUM GUIDE 2012  
 DISCIPLINE: Math GRADE LEVEL: 5

Operations and Algebraic Thinking							
Write and interpret numerical expressions.							
Grade Level Standards		Essential Questions	Time Frame	Activities and Differentiation	Cross Curricular Connections	Assessment/ Benchmark	Resources
Domain	Standard						
5.OA	1	How do you use and evaluate parentheses, brackets, or braces in numerical expressions?	February-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Social Studies~ Map Skills, Colonial schools 5.W.10, 5.SL.1, 5.L.6	Unit Assessment, Slate Assessment, Games, teacher observation, Project 2	Unit 7
5.OA	2	How you write simple expressions that record calculations with numbers and interpret numerical expressions without evaluating them?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Science Lab Reports; Social Studies~ Colonial America 5.ri.10, 5.W.10, 5.SL.1, 5.L.5, 5.L.6	Unit Assessment, Slate Assessment, Games, teacher observation	Unit 1, Unit 3, Unit 7, Unit 10
Analyze patterns and relationships.							
5.OA	3	How do you graph ordered number pairs after generating numerical patterns using two given rules?	April- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.3, 5.RI.10, 5.W.10, 5.SL.1, 5.L.4, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 10

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Number and Operations in Base Ten							
Understand the place value system.							
Grade Level Standards		Essential Questions	Time Frame	Activities and Differentiation	Cross Curricular Connections	Assessment/ Benchmark	Resources
Domain	Standard						
5.NBT	1	In a multi-digit number, what is the relationship between what the number represents compared to other places?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.SL.1, 5.SL.3, 5.SL.4, 5.SL.5	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 2, Unit 7
5.NBT	2	How do you explain patterns in the product when multiplying powers of 10? How do you explain the patterns when multiplying or dividing decimals by the power of 10? What is an exponent?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Social Studies~ Colonial America  5.W.10, 5.L.5.RI10, 5.SL.1, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 1, Unit 2, Unit 4, Unit 1, Unit 7
5.NBT	3	How do you read, write and compare decimals to the thousandths place?	September - June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Social Studies~ Census (American Tour) 5.RI.1, 5.RI.3, 5.RI.10, 5.SL.1, 5.SL.2, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 2, Unit 7
5.NBT	4	How does place value understanding help you to round decimals?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.4, 5.RI.10, 5.W.10, 5.SL.1, 5.SL.5, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit2, Unit 5, Unit 7

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Perform operations with multi-digit whole numbers and with decimals to hundredths.							
Grade Level Standards		Essential Questions	Time Frame	Activities and Differentiation	Cross Curricular Connections	Assessment/Benchmark	Resources
Domain	Standard						
5.NBT	5	How do you multiply multi-digit whole numbers using the standard algorithm?	February-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.10, 5.SL.1	Unit Assessment, Slate Assessment, Games, Teacher observation, Projects 5 and 6	Unit 7, Unit 10
5.NBT	6	How do you find whole-number quotients when dividing using two-digit divisors using paper-and-pencil and supporting your answer with equations, arrays, and/or area models?	November-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.W.10, 5.SL.4, 5.SL.1, 5.SL.5	Unit Assessment, Slate Assessment, Games, Teacher observation, Project 7	Unit 4, Unit 7
5.NBT	7	How do you add, subtract, multiply, and divide decimals to the hundredths place using concrete models or drawings, as well as strategies based on place value? How can you relate the strategy to a written method and explain the reasoning used?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Social Studies~ Climate and Contour Maps (American Tour) 5.RI.1, 5.RI.4, 5.RI.10, 5.W.10, 5.SL.1, 5.SL.4, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation, Projects 2, 4, 6, 8, 9	Unit 2, Unit 4, Unit 5, Unit 6, Unit 7, Unit 9, Unit 10, Unit 12

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Number and Operations - Fractions.							
Use equivalent fractions as a strategy to add and subtract fractions.							
Grade Level Standards		Essential Questions	Time Frame	Activities and Differentiation	Cross Curricular Connections	Assessment/ Benchmark	Resources
Domain	Standard						
5NF	1	How do you add and subtract fractions with unlike denominators?	December-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Literacy~ Comparing and Contrasting graphs; Social Studies~ 5.W.10, 5.SL.1, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 5, Unit 6, Unit 7, Unit 8, Unit 11
5NF	2	How do you solve word problems involving addition and subtraction of fractions? How do you assess the reasonableness of the answer?	December-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.W.10, 5.SL.1, 5.L.6, 5.RO.10, 5.SL.1, 5.L.4	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 5, Unit 6, Unit 7, Unit 8, Unit 9, Unit 10, Unit 11
Apply and extend previous understandings of multiplication and division to multiply and divide fractions.							
5NF	3	How do you solve word problems involving division of whole numbers? What do you do with the remainder?	December-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Social Studies~ State populations 5.RI.10, 5.W.10, 5.SL.1, 5.L.4, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 5, Unit 6, Unit 7
5NF	4	How can you apply and extend your understanding of multiplication in order to multiply a fraction?	February-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.10, 5.W.10, 5.SL.1, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 8, Unit 9, Unit 11

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Grade Level Standards		Essential Questions	Time Frame	Activities and Differentiation	Cross Curricular Connections	Assessment/Benchmark	Resources
Domain	Standard						
5NF	5a	What is the relationship between factors and scaling?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Social Studies~ Map skills 5.RI.4, 5.RI.10, 5.W.10, 5.SL.1	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 1, Unit 3, Unit 4, Unit 8, Unit 10
5NF	5b	How is the product different when you multiply with a fraction compared to a whole number?	January-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.W.10, 5.SL.1, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 6, Unit 8
5NF	6	How can you use fraction models or equations to represent real world problems?	February-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.10, 5.W.10, 5.SL.1, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 8, Unit 9
5NF	7	How will our understanding of division help us to understand how to divide unit fractions by whole numbers?	February-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Social Studies~ comparing trends 5.RI.4, 5.RI.10, 5.W.10, 5.SL.1	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 8, Unit 9, Unit 11, Unit 12

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Measurement and Data							
Convert like measurement units within a given measurement system.							
Grade Level Standards		Essential Questions	Time Frame	Activities and Differentiation	Cross Curricular Connections	Assessment/Benchmark	Resources
Domain	Standard						
5.MD	1	How do you change standard unit measurements in order to solve multi-step problems?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	Science~ predicting when Old Faithful Will Erupt Next 5.SL.1, 5.SL.4, 5.SL.3, 5.SL.5	Unit Assessment, Slate Assessment, Games, Teacher observation, Project 6	Unit 2, Unit 6, Unit 9, Unit 10, Unit 11
Represent and interpret data.							
5.MD	2	How can you use a line plot with a data set in unit fractions?	September-June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.4, 5.RI.10, 5.W.10, 5.SL.1, 5.SL.5, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 2, Unit 6, Unit 7, Unit 10, Unit 11
Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.							
5.MD	3	What is volume? How do you measure it?	March- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.3, 5.RI.10, 5.W.10, 5.SL.4, 5.L.4, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation, Project 9	Unit 9, Unit 10, Unit 11
5.MD	4	How can manipulatives help you to measure volume?	March- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.3, 5.RI.10, 5.W.10, 5.SL.4, 5.L.4, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation, Project 9	Unit 9, Unit 10, Unit 11

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Grade Level Standards		Essential Questions	Time Frame	Activities and Differentiation	Cross Curricular Connections	Assessment/ Benchmark	Resources
Domain	Standard						
5.MD	5	How does multiplication and addition relate to volume and help you solve real world problems?	March- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.3, 5.RI.10, 5.W.10, 5.SL.4, 5.L.4, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation, Project 9	Unit 9, Unit 10, Unit 11
<b>Geometry</b>							
<b>Graph points on the coordinate plane to solve real-world and mathematical problems.</b>							
5.G	1	How do you use a coordinate graph system to graph points and lines on a plane?	March- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	RI.1, 5.RI.10, 5.W.10, 5.L.1, 5.SL.5, 5.L.6.	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 9, Unit 10, Unit 12
5.G	2	How can graphs help you interpret real world math problems?	March- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	RI.1, 5.RI.10, 5.W.10, 5.L.1, 5.SL.5, 5.L.6.	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 9, Unit 10
<b>Classify two-dimensional figures into categories based on their properties.</b>							
5.G	3	How can attributes be used to categorize two-dimensional figures?	October- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.10, 5.W.10, 5.SL.1, 5.SL.5, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 3, Unit 4, Unit 8
5.G	4	How can properties help you to classify two-dimensional figures?	October- June	General progression of activities both concrete and abstract as suggested in Everyday Math daily lessons	5.RI.10, 5.W.10, 5.SL.1, 5.SL.5, 5.L.6	Unit Assessment, Slate Assessment, Games, Teacher observation	Unit 3, Unit 4, Unit 8