

Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: August/September Topic(s): <ul style="list-style-type: none"> • TOPIC 1: Numeration • TOPIC 2: Number Sense: Addition and Subtraction 	
Content/Big Ideas	NUMERATION & NUMBER SENSE: ADDITION AND SUBTRACTION <ul style="list-style-type: none"> • Number Uses, Classification, and Representation • Numbers and the Number Line • The Base-Ten Numeration System • Operation Meaning and Relationships • Properties • Basic Facts and Algorithms • Estimation • Practices, Processes, and Proficiencies 	
Essential Questions	How are numbers read and written? How can sums and differences be found mentally?	
Concepts	<ul style="list-style-type: none"> • Use place value understanding and properties of operations to perform multi digit arithmetic. 	
Competencies	<ul style="list-style-type: none"> • Develop place value understanding to round numbers. • Fluently add and subtract within a thousand, estimate sums and differences. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.NBT.A.1 • 3.NBT.A.2 • 3.OA.D.8 • 3.OA.D.9 	
Activities & Assessments	<ul style="list-style-type: none"> • Fact Fluency • Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests 	

Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: October Topic(s): <ul style="list-style-type: none"> • TOPIC 3: Using Place Value to Add and Subtract • TOPIC 4: Meanings of Multiplication 	
Content/Big Ideas	USING PLACE VALUE TO ADD & SUBTRACT AND MEANINGS OF MULTIPLICATION <ul style="list-style-type: none"> • Number Uses, Classification, and Representation • Numbers and the Number Line • The Base-Ten Numeration System • Operation Meaning and Relationships • Properties • Basic Facts and Algorithms • Estimation • Practices, Processes, and Proficiencies • Variable • Equivalence • Patterns, relations, and functions 	
Essential Questions	What are standard procedures for adding and subtracting whole numbers? How are addition and multiplication related?	
Concepts	Developing understandings on multiplication and division and strategies for multiplication and division within a 100. <ul style="list-style-type: none"> • Use place value understanding and properties of operations to perform multi digit arithmetic. • Represent and solve problems involving multiplication and division. • Understand properties of multiplication and the relationship between multiplication and division. • Solve problems involving the four operations, and identify and explain patterns in arithmetic. 	
Competencies	<ul style="list-style-type: none"> • Fluently add and subtract within 1000 using place value. • Understand multiplication using arrays, properties, and repeated addition. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.NBT.A.1 • 3.NBT.A.2 • 3.OA.A.1 • 3.OA.A.3 • 3.OA.B.5 • 3.OA.D.9 	

Activities & Assessments

- Fact Fluency
- Daily Common Core Reviews
- Quick Checks
- Leveled Homework
- Topic Tests

Teacher: Kitt, Musselman, Hesel	Course: Math	Grade Level(s): 3
	Month: November Topic(s): <ul style="list-style-type: none"> • TOPIC 5: Multiplication Facts: Use patterns. • TOPIC 6: Multiplication Facts: Use known facts. 	
Content/Big Ideas	MULTIPLICATION FACTS: USE PATTERNS & MULTIPLICATION FACTS; USE KNOWN FACTS <ul style="list-style-type: none"> • Operation Meaning and Relationships • Properties • Basic Facts and Algorithms • Practices, Processes, and Proficiencies • Variable • Equivalence • Patterns, relations, and functions 	
Essential Questions	What patterns can be used to find certain multiplication facts? How can unknown multiplication facts be found using known facts?	
Concepts	Developing understandings on multiplication and division and strategies for multiplication and division within a 100. <ul style="list-style-type: none"> • Represent and solve problems involving multiplication and division. • Understand properties of multiplication and the relationship between multiplication and division. • Multiply and divide within 100. • Solve problems involving the four operations, and identify and explain patterns in arithmetic. 	
Competencies	<ul style="list-style-type: none"> • Use patterns and properties for multiplication facts. • Multiplication facts, multiplying three factors. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.OA.A.3 • 3.OA.C.7 • 3.OA.B.5 • 3.OA.D.8 • 3.OA.D.9 • 3.NBT.A.3 • 3.MD.C.7c 	

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Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: December Topic(s): <ul style="list-style-type: none"> • TOPIC 7: Meanings of Division 	
Content/Big Ideas	MEANINGS OF DIVISION <ul style="list-style-type: none"> • Operation Meaning and Relationships • Properties • Basic Facts and Algorithms • Practices, Processes, and Proficiencies • Variable • Equivalence • Patterns, relations, and functions 	
Essential Questions	How is division related to other operations?	
Concepts	Developing understandings on multiplication and division and strategies for multiplication and division within a 100. <ul style="list-style-type: none"> • Represent and solve problems involving multiplication and division. • Understand properties of multiplication and the relationship between multiplication and division. • Solve problems involving the four operations, and identify and explain patterns in arithmetic. 	
Competencies	<ul style="list-style-type: none"> • Understand division as finding how many equal groups or how many in equal groups. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.OA.A.2 • 3.OA.A.3 • 3.OA.A.4 • 3.OA.B.6 • 3.OA.D.9 	
Activities & Assessments	<ul style="list-style-type: none"> • Fact Fluency • Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests 	

Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: January Topic(s): <ul style="list-style-type: none"> • TOPIC 8: Division Facts • TOPIC 9: Understanding Fractions 	
Content/Big Ideas	DIVISION FACTS & UNDERSTANDING FRACTIONS <ul style="list-style-type: none"> • Operation Meaning and Relationships • Properties • Basic Facts and Algorithms • Practices, Processes, and Proficiencies • Variable • Equivalence • Patterns, relations, and functions • Comparison and relationships • Numbers and the number line 	
Essential Questions	How can an unknown division fact be found by thinking of a related multiplication fact? What are different interpretations of a fraction?	
Concepts	Developing understandings on multiplication and division and strategies for multiplication and division within a 100. Developing understanding of fractions, especially unit fractions. (fractions with numerator 1) <ul style="list-style-type: none"> • Represent and solve problems involving multiplication and division. • Understand properties of multiplication and the relationship between multiplication and division. • Multiply and divide within 100. • Solve problems involving the four operations, and identify and explain patterns in arithmetic. • Multiply and divide within 100 and develop understanding of fractions as numbers. 	
Competencies	<ul style="list-style-type: none"> • Relationship between multiplication and division, fact families. • Meaning of fractions. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.OA.A.3 • 3.OA.A.4 • 3.OA.B.6 • 3.OA.C.7 • 3.NF.A.1 • 3.NF.A.2a • 3.NF.A.2b • 3.G.A.2 	

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Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: February Topic(s): <ul style="list-style-type: none"> • TOPIC 10: Fraction Comparison and Equivalence • TOPIC 11: Two Dimensional Shapes and Their Attributes 	
Content/Big Ideas	FRACTION COMPARIISON AND EQUIVALENCE & TWO DIMENTIONAL SHAPES AND THEIR ATTRIBUTES <ul style="list-style-type: none"> • Numbers and the number line • Equivalence • Comparison and relationships • Practices, processes, and proficiencies • Geometric shapes 	
Essential Questions	What are different ways to compare fractions? How can two dimensional shapes be describes, analyzed, and classified?	
Concepts	Developing understanding of fractions, especially unit fractions (fractions with numerator 1). Describing and analyzing two dimensional shapes. <ul style="list-style-type: none"> • Develop understanding fractions as numbers. • Reason with shapes and their attributes. 	
Competencies	<ul style="list-style-type: none"> • Reason about size of fractions. • Attributes of shapes. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.OA.C.7 • 3.OA.D.8 • 3.NF.A.2a • 3.NF.A.3a • 3.NF.A.3b • 3.NF.A.3c • 3.NF.A.3d • 3.G.A.1 • 3.MD.C.7d 	
Activities & Assessments	<ul style="list-style-type: none"> • Fact Fluency • Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests 	

Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: March Topic(s): <ul style="list-style-type: none"> • TOPIC 12: Time • TOPIC 13: Perimeter 	
Content/Big Ideas	TIME & PERIMETER <ul style="list-style-type: none"> • Measurement • Data Collection and Representation • Practices, Processes, and Proficiencies 	
Essential Questions	How can likes of time be measured and found? How can perimeter be measured and found?	
Concepts	Developing understanding of the structure of rectangular arrays and of area. <ul style="list-style-type: none"> • Solve problems involving measurement 	
Competencies	<ul style="list-style-type: none"> • Reason about size of fractions. • Attributes of shapes. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.OA.C.7 • 3.OA.D.8 • 3.NF.A.2a • 3.NF.A.3a • 3.NF.A.3b • 3.NF.A.3c • 3.NF.A.3d • 3.G.A.1 • 3.MD.C.7d 	
Activities & Assessments	<ul style="list-style-type: none"> • Fact Fluency • Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests 	

Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: April Topic(s): <ul style="list-style-type: none"> • TOPIC 14: Area • TOPIC 15: Liquid, Volume, and Mass 	
Content/Big Ideas	AREA & LIQUID, VOLUME, AND MASS <ul style="list-style-type: none"> • Measurement • Data collection and representation • Practices, processes, and proficiencies 	
Essential Questions	What are different ways to find the area of a shape? What are the metric units for measuring capacity and mass?	
Concepts	Developing understanding of the structure of rectangular arrays and area. <ul style="list-style-type: none"> • Geometric measurement; understand concepts of area and relate area to multiplication and to division. • Geometric measurement; recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. • Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. 	
Competencies	<ul style="list-style-type: none"> • Area concepts • Measuring mass and capacity 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.MD.C.5a • 3.MD.C.5b • 3.MD.C.6 • 3.MD.C.7a • 3.MD.C.7b • 3.MD.C.7c • 3.MD.C.7d • 3.MD.D.8 • 3.OA.A.3 • 3.G.A.2 • 3.MD.A.2 	

Activities & Assessments

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Teacher: Kitt, Musselman, Helsel	Course: Math	Grade Level(s): 3
	Month: March Topic(s): <ul style="list-style-type: none"> • TOPIC 12: Time • TOPIC 13: Perimeter 	
Content/Big Ideas	TIME & PERIMETER <ul style="list-style-type: none"> • Measurement • Data Collection and Representation • Practices, Processes, and Proficiencies 	
Essential Questions	How can likes of time be measured and found? How can perimeter be measured and found?	
Concepts	Developing understanding of the structure of rectangular arrays and of area. <ul style="list-style-type: none"> • Solve problems involving measurement 	
Competencies	<ul style="list-style-type: none"> • Reason about size of fractions. • Attributes of shapes. 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.OA.C.7 • 3.OA.D.8 • 3.NF.A.2a • 3.NF.A.3a • 3.NF.A.3b • 3.NF.A.3c • 3.NF.A.3d • 3.G.A.1 • 3.MD.C.7d 	
Activities & Assessments	<ul style="list-style-type: none"> • Fact Fluency • Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests 	

Teacher: Kitt, Musselman, Hesel	Course: Math	Grade Level(s): 3
	Month: May Topic(s): <ul style="list-style-type: none"> • TOPIC 16: Data • 	
Content/Big Ideas	DATA <ul style="list-style-type: none"> • Measurement • Data collection and representation • Practices, processes, and proficiencies 	
Essential Questions	How can data be represented, interpreted, and analyzed?	
Concepts	<ul style="list-style-type: none"> • Represent and interpret data. 	
Competencies	<ul style="list-style-type: none"> • Represent and interpret data 	
Standards/Benchmarks	<ul style="list-style-type: none"> • 3.MD.B.3 • 3.MD.B.4 	
Activities & Assessments	<ul style="list-style-type: none"> • Fact Fluency • Daily Common Core Reviews • Quick Checks • Leveled Homework • Topic Tests 	