

# Curriculum Unit Template

## Taneyville R-II School

**Grade Level:** 4th grade

**Subject:** Math

**Quarter:** 1st Quarter

**Unit Title:** Unit 1 - Multiplication and Division: Meanings and Facts

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.RA.A.1 4.RA.A.3</p> <p><b><u>Supporting Standards</u></b></p> <p>4.RA.A.2 4.RA.B.4 4.RA.B.5 4.RA.C.6 4.RA.C.7</p>	<p>Array Product Factors Multiple Commutative Property Zero Property Identity Property Distributive Property Inverse Operations Fact Family Quotient</p>	<p>Lesson 1 - Meanings of Multiplication</p> <ul style="list-style-type: none"> <li>Students recognize multiplication as repeated addition of equal groups used in arrays and comparisons.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>Mixed problem solving</li> <li>Timed mult. test</li> <li>WS 1-1</li> </ul> <p>Lesson 2 - Patterns for Facts</p> <ul style="list-style-type: none"> <li>Use patterns to find products with factors of 2, 5, 9</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>Multiplication chart</li> <li>Timed mult. test</li> <li>WS 1-2</li> </ul> <p>Lesson 3 - Multiplication Properties</p> <ul style="list-style-type: none"> <li>Use multiplication properties to simplify computations.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> </ul>	<p>Review Test Topic 1 Test</p>

		<ul style="list-style-type: none"> <li>• Multiplication chart</li> <li>• Timed mult. test</li> <li>• WS 1-3</li> </ul> <p>Lesson 4 - 3, 4, 6, 7, 8</p> <ul style="list-style-type: none"> <li>• Students will use the distributive property to find products of the factors 3, 4, 6, 7, and 8 by breaking apart problems into simpler problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided practice</li> <li>• Timed mult. Test</li> <li>• Fact sheet</li> <li>• WS 1-4</li> </ul> <p>Lesson 5 - Look for a Pattern</p> <ul style="list-style-type: none"> <li>• Students will recognize patterns and be able to continue the pattern.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided practice</li> <li>• Timed mult. Test</li> <li>• Multiplication chart</li> <li>• WS 1-5</li> </ul> <p>Lesson 6 - Meanings of Division</p> <ul style="list-style-type: none"> <li>• Students use and draw models to solve division problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Mult. Chart</li> <li>• Time Division test</li> <li>• Algebra Connections</li> <li>• WS 1-6</li> </ul> <p>Lesson 7 - Relating Multiplication and Division</p> <ul style="list-style-type: none"> <li>• Students use arrays to write and</li> </ul>	
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		<p>complete multiplication and division fact families.</p> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Multiplication Chart</li> <li>• Guided Practice</li> <li>• Time Division test</li> <li>• WS 1-7</li> </ul> <p>Lesson 8 - Special Quotients</p> <ul style="list-style-type: none"> <li>• Students use multiplication facts with 0 and 1 to learn about special division rules with 0 and 1.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Multiplication Chart</li> <li>• Guided Practice</li> <li>• Time Division test</li> <li>• WS 1-8</li> </ul> <p>Lesson 9 - Using Multiplication Facts to Find Division Facts</p> <ul style="list-style-type: none"> <li>• Students will identify multiplication facts related to division facts in order to solve division problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Multiplication Chart</li> <li>• Guided Practice</li> <li>• Time Division test</li> <li>• WS 1-9</li> </ul> <p>Lesson 10 - Draw a Picture and Write an Equation</p> <ul style="list-style-type: none"> <li>• Students will draw pictures to problem solve multiplication situations and use their pictures to write number sentences.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Multiplication Chart</li> <li>• Guided Practice</li> </ul>	
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Unit 2- Generate and Analyze Patterns		<ul style="list-style-type: none"> <li>Time Division test</li> <li>WS 1-10</li> </ul>	
Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.NBT.A.2 4.DS.A.3</p> <p><b><u>Supporting Standards</u></b></p> <p>4.NBT.A.1 4.NBT.A.3 4.NBT.A.4 4.NBT.A.5 4.NBT.A.6 4.NBT.A.7 4.DS.A.1 4.DS.A.3</p>	Repeating Pattern	<p>Lesson 1 - Repeating Patterns</p> <ul style="list-style-type: none"> <li>Students will identify and extend repeating geometric or repeating number patterns.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 2-1</li> </ul> <p>Lesson 2 - Number Sequence</p> <ul style="list-style-type: none"> <li>Students will identify and extend whole-number patterns involving addition and subtraction.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 2-2</li> </ul> <p>Lesson 3 - Extending Tables</p> <ul style="list-style-type: none"> <li>Students will extend tables of ordered pairs for situations involving multiplication, addition, or subtraction.</li> </ul>	Review Test Topic 2 Test

		<p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 2-3</li> </ul> <p>Lesson 4 - Writing Rules for Situations</p> <ul style="list-style-type: none"> <li>• Students will find a rule and extend the table, given a table of number pairs.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 2-4</li> </ul> <p>Lesson 5 - Geometric Patterns</p> <ul style="list-style-type: none"> <li>• Students will extend patterns of cubes or tiles</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 2-5</li> </ul> <p>Lesson 6 - Problem Solving: Act It Out and Use Reasoning</p> <ul style="list-style-type: none"> <li>• Students will use the strategies Act It Out and Use Reasoning to solve problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 2-6</li> </ul>	
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### Unit 3 - Place Value

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<b><u>Priority Standards</u></b> 4.NBT.A.2 4.NBT.A.4	Digits Place value Standard form Expanded form Word form Compare	Lesson 1 - Representing Numbers <ul style="list-style-type: none"> <li>Students will read and write 3-digit and 4-digit numbers.</li> </ul> Activities: <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 3-1</li> </ul> Lesson 2 - Place Value Relationships <ul style="list-style-type: none"> <li>Students will learn how digits within a multi-digit whole number relate to each other by their place value.</li> </ul> Activities: <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 3-2</li> </ul> Lesson 3 - Comparing Numbers <ul style="list-style-type: none"> <li>Students will compare whole numbers through hundred thousands.</li> </ul> Activities: <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 3-3</li> </ul>	Review Test Topic 3 Test
<b><u>Supporting Standards</u></b> 4.NBT.A.1 4.NBT.A.3 4.NBT.A.5 4.NBT.A.6 4.NBT.A.7			

		<p>Lesson 4 - Ordering Numbers</p> <ul style="list-style-type: none"> <li>Students will apply their knowledge of place value to compare and order numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 3-4</li> </ul> <p>Lesson 5 - Rounding Whole Numbers</p> <ul style="list-style-type: none"> <li>Students will show how to use place value to round whole numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 3-5</li> </ul> <p>Lesson 6 - Problem Solving: Make an Organized List</p> <ul style="list-style-type: none"> <li>Students will systematically find and record all possible outcomes for a situation.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 3-6</li> </ul>	
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## Unit 4 - Addition and Subtraction of Whole Numbers

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.NBT.A.2 4.NBT.A.4</p> <p><b><u>Supporting Standards</u></b></p> <p>4.NBT.A.1 4.NBT.A.3 4.NBT.A.5 4.NBT.A.6 4.NBT.A.7</p>	<p>Breaking apart Compensation Counting on Commutative property of addition Associative property of addition Identity property of addition Inverse operations</p>	<p>Lesson 1 - Using Mental Math to Add and Subtract</p> <ul style="list-style-type: none"> <li>Students will apply a variety of methods to add and subtract whole numbers mentally.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 4-1</li> </ul> <p>Lesson 2 - Estimating Sums and Differences of Whole Numbers</p> <ul style="list-style-type: none"> <li>Students will round whole numbers to estimate sums and differences.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 4-2</li> </ul> <p>Lesson 3 - Adding Whole Numbers</p> <ul style="list-style-type: none"> <li>Students will add numbers to hundreds and thousands with and without regrouping.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> </ul>	



		<ul style="list-style-type: none"> <li>• WS 4-3</li> </ul> <p>Lesson 4 - Subtracting Whole Numbers</p> <ul style="list-style-type: none"> <li>• Students will subtract numbers to thousands with and without regrouping.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 4-4</li> </ul> <p>Lesson 5 - Subtracting Across Zeros</p> <ul style="list-style-type: none"> <li>• Students will subtract numbers with zeros to thousands</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 4-5</li> </ul> <p>Lesson 6 - Draw a Picture and Write an Equation</p> <ul style="list-style-type: none"> <li>• Students will use a picture or diagram to translate an everyday situation into a number sentence or equation.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 4-6</li> </ul>	
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## Unit 5 - Number Sense: Multiplying by 1-Digit Numbers

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.NBT.A.6 4.RA.A.1</p> <p><b><u>Supporting Standards</u></b></p> <p>4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 4.NBT.A.4 4.NBT.A.5 4.NBT.A.7 4.RA.A.2 4.RA.A.3 4.RA.B.4 4.RA.B.5 4.RA.C.6 4.RA.C.7</p>	Partial Products	<p>Lesson 1 - Arrays and Multiplying by 10 and 100</p> <ul style="list-style-type: none"> <li>Students will use arrays to multiply by 10 and 100.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 5-1</li> </ul> <p>Lesson 2 - Multiplying by Multiples of 10 and 100</p> <ul style="list-style-type: none"> <li>Students will use basic multiplication facts and number patterns to multiply by multiples of 10 and 100.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 5-2</li> </ul> <p>Lesson 3 - Breaking Apart to Multiply</p> <ul style="list-style-type: none"> <li>Students will break apart numbers and use arrays to multiply 2-digit by 1-digit numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 5-3</li> </ul> <p>Lesson 4 - Using Mental Math to Multiply</p> <ul style="list-style-type: none"> <li>Students will use compensation to multiply numbers mentally.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 5-4</li> </ul>	Review Test Topic Test 5

		<p>Lesson 5 - Using Rounding to Estimate</p> <ul style="list-style-type: none"> <li>Students will use rounding to estimate solutions to multiplication problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 5-5</li> </ul> <p>Lesson 6 - Reasonableness</p> <ul style="list-style-type: none"> <li>Students will check for reasonableness by making sure their calculations answer the questions asked and by using estimation to make sure the calculation was performed correctly.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 5-6</li> </ul>	
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#### Unit 6 - Developing Fluency: Multiplying by 1-Digit Numbers

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.NBT.A.6 4.RA.A.1</p> <p><b><u>Supporting Standards</u></b></p> <p>4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 4.NBT.A.4 4.NBT.A.5</p>		<p>Lesson 1 - Arrays and Using and Expanded Algorithm</p> <ul style="list-style-type: none"> <li>Students will record multiplication using an expanded algorithm.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 6-1</li> </ul> <p>Lesson 2 - Connecting the Expanded and Standard Algorithm</p>	<p>Review Test Topic 6 Test</p>

4.NBT.A.7 4.RA.A.2 4.RA.A.3 4.RA.B.4 4.RA.B.5 4.RA.C.6 4.RA.C.7		<ul style="list-style-type: none"> <li>Students will multiply 2-digit numbers by 1-digit numbers using paper-and-pencil methods.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 6-2</li> </ul> <p>Lesson 3 - Multiplying 2-Digit by 1-Digit Numbers</p> <ul style="list-style-type: none"> <li>Students will multiply 2-digit numbers by 1-digit numbers using the standard algorithm and estimate to check for reasonableness</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 6-3</li> </ul> <p>Lesson 4 - Multiplying 3- and 4-Digit Numbers by 1 Digit Numbers</p> <ul style="list-style-type: none"> <li>Students will use the standard algorithm to multiply 3- and 4-digit numbers by 1-digit numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 6-4</li> </ul> <p>Lesson 5 - Multiplying by 1-Digit Numbers</p> <ul style="list-style-type: none"> <li>Students will multiply 2-, 3-, and 4-digit numbers by 1-digit numbers using the standard algorithm and estimate to check for reasonableness.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 6-5</li> </ul> <p>Lesson 6 - Missing or Extra Information</p>	
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		<ul style="list-style-type: none"> <li>Students will identify what information in a problem is missing or not needed.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 6-6</li> </ul>	
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### Unit 7 - Number Sense: Multiplying by 2-Digit Numbers

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<b><u>Priority Standards</u></b> 4.NBT.A.4 4.NBT.A.6 4.RA.A.1	Compatible Numbers	<p>Lesson 1 - Arrays and Multiplying 2-Digit Numbers by Multiples of 10</p> <ul style="list-style-type: none"> <li>Students will use arrays to multiply 2-digit numbers by multiples of 10.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 7-1</li> </ul> <p>Lesson 2 - Using Mental Math to Multiply 2-Digit Numbers</p> <ul style="list-style-type: none"> <li>Students will discover and use patterns to multiply by multiples of 10.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 7-2</li> </ul> <p>Lesson 3 - Using Rounding to Estimate</p> <ul style="list-style-type: none"> <li>Students will use rounding to estimate solutions to multiplication problems involving two 2-digit numbers</li> </ul>	Review Test Topic 7 Test

<b><u>Supporting Standards</u></b> 4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 4.NBT.A.5 4.NBT.A.7 4.RA.A.2 4.RA.A.3 4.RA.B.4 4.RA.B.5 4.RA.C.6 4.RA.C.7		Activities: <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 7-3</li> </ul> Lesson 4 - Using Compatible Numbers to Estimate <ul style="list-style-type: none"> <li>Students will use compatible numbers and rounding to estimate solutions to multiplication problems involving 2-digit numbers.</li> </ul> Activities: <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 7-4</li> </ul> Lesson 5 - Multi-Step Problems <ul style="list-style-type: none"> <li>Identify and answer hidden questions to solve multi-step problems with operations</li> </ul> Activities: <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 7-5</li> </ul>	
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### Unit 8 - Developing Fluency: Multiplying by 2-Digit Numbers

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<b><u>Priority Standards</u></b> 4.NBT.A.4 4.NBT.A.6 4.RA.A.1		Lesson 1 - Arrays and Multiplying 2-Digit Numbers <ul style="list-style-type: none"> <li>Students will use arrays to multiply two-digit numbers by two-digit numbers to find the product.</li> </ul>	Review Test Topic 8 Test

<p><b><u>Supporting Standards</u></b></p> <p>4.NBT.A.1  4.NBT.A.2  4.NBT.A.3  4.NBT.A.5  4.NBT.A.7  4.RA.A.2  4.RA.A.3  4.RA.B.4  4.RA.B.5  4.RA.C.6  4.RA.C.7</p>		<p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 8-1</li> </ul> <p>Lesson 2 - Arrays and an Expanded Algorithm</p> <ul style="list-style-type: none"> <li>• Students will use an expanded algorithm to multiply two-digit numbers by two-digit numbers to find the product.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 8-2</li> </ul> <p>Lesson 3 - Multiplying 2-Digit Numbers by Multiples of 10</p> <ul style="list-style-type: none"> <li>• Students will use grids and patterns to multiply 2-digit numbers and multiples of 10.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 8-3</li> </ul> <p>Lesson 4 - Multiplying 2-Digit by 2-Digit Numbers</p> <ul style="list-style-type: none"> <li>• Students will use partial products to multiply 2-digit numbers by 2-digit numbers and find the products.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 8-4</li> </ul> <p>Lesson 5 - Two-Question Problems</p> <ul style="list-style-type: none"> <li>• Students will solve two-question problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> </ul>	
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		<ul style="list-style-type: none"> <li>WS 8-5</li> </ul>	
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## Unit 9 - Number Sense: Dividing by 1-Digit Divisors

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<b><u>Priority Standards</u></b> 4.NBT.A.4 4.NBT.A.7 4.RA.A.1	Remainder	<p>Lesson 1 - Using Mental Math to Divide</p> <ul style="list-style-type: none"> <li>Students will use basic-facts and patterns of zeros to solve division problems with 3-digit dividends and 1-digit numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 9-1</li> </ul> <p>Lesson 2 - Estimating Quotients</p> <ul style="list-style-type: none"> <li>Students will use compatible numbers and rounding to estimate quotients.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 9-2</li> </ul> <p>Lesson 3 - Estimating Quotients for Greater Dividends</p> <ul style="list-style-type: none"> <li>Students will estimate quotients of multi-digit division problems using multiplication facts and place-value concepts.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 9-3</li> </ul>	Review Test Topic Test



<b><u>Supporting Standards</u></b> 4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 4.NBT.A.5 4.NBT.A.6 4.RA.A.2 4.RA.A.3 4.RA.B.4 4.RA.B.5 4.RA.C.6 4.RA.C.7		<p>Lesson 4 - Dividing With Remainders</p> <ul style="list-style-type: none"> <li>Students will divide whole numbers by 1-digit divisors resulting in quotients with remainders.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 9-4</li> </ul> <p>Lesson 5 - Multiplication and Division Stories</p> <ul style="list-style-type: none"> <li>Students use words and models to represent multiplication and division problems accurately.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 9-5</li> </ul> <p>Lesson 6 - Draw a Picture and Write an Equation</p> <ul style="list-style-type: none"> <li>Students will draw pictures and write related number sentences to solve problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 9-6</li> </ul>	
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#### Unit 10 - Developing Fluency: Dividing by 1-Digit Divisors

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<b><u>Priority Standards</u></b> 4.NBT.A.4		<p>Lesson 1 - Using Objects to Divide: Division as Repeated Subtraction</p> <ul style="list-style-type: none"> <li>Students will use repeated</li> </ul>	Review Test Topic Test

4.NBT.A.7 4.RA.A.1  <u><b>Supporting Standards</b></u> 4.NBT.A.1 4.NBT.A.2 4.NBT.A.3 4.NBT.A.5 4.NBT.A.6 4.RA.A.2 4.RA.A.3 4.RA.B.4 4.RA.B.5 4.RA.C.6 4.RA.C.7		<p>subtraction to model division.</p> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 10-1</li> </ul> <p>Lesson 2 - Division as Repeated Subtraction</p> <ul style="list-style-type: none"> <li>• Students will record division as repeated subtraction.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 10-2</li> </ul> <p>Lesson 3 - Using Objects to Divide: Division as Sharing</p> <ul style="list-style-type: none"> <li>• Students will use place value to understand the algorithm of long division.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 10-3</li> </ul> <p>Lesson 4 - Dividing 2-Digit by 1-Digit Numbers</p> <ul style="list-style-type: none"> <li>• Students will use the standard algorithm to divide a two-digit number by a one-digit number.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 10-4</li> </ul> <p>Lesson 5 - Dividing 3-Digit by 1-Digit Numbers</p> <ul style="list-style-type: none"> <li>• Students will use the standard algorithm to divide 3-digit numbers by 1-digit numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> </ul>	
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		<ul style="list-style-type: none"> <li>• WS 10-5</li> </ul> <p>Lesson 6 - Deciding Where to Start Dividing</p> <ul style="list-style-type: none"> <li>• Students will use the standard algorithm to divide 3-digit numbers and properly decide where to begin dividing.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 10-6</li> </ul> <p>Lesson 7 - Dividing 4-Digit by 1-Digit Numbers</p> <ul style="list-style-type: none"> <li>• Students will estimate and find quotients for 4-digit dividends and 1-digit divisors.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 10-7</li> </ul> <p>Lesson 8 - Multiple-Step Problems</p> <ul style="list-style-type: none"> <li>• Students will identify the hidden question in a multi-step problem. They use the answer to that hidden question to solve the original problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 10-8</li> </ul>	
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## Unit 11 - Fraction Equivalence and Ordering

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.NF.A.1</p> <p><b><u>Supporting Standards</u></b></p> <p>4.NF.A.2</p> <p>4.NF.A.3</p>	<p>Fraction</p> <p>Denominator</p> <p>Numerator</p> <p>Benchmark fraction</p> <p>Equivalent fraction</p> <p>Prime number</p> <p>Composite number</p>	<p>Lesson 1 - Factors</p> <ul style="list-style-type: none"> <li>Students will learn how to factor whole numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 11-1</li> </ul> <p>Lesson 2 - Prime and Composite Numbers</p> <ul style="list-style-type: none"> <li>Students will learn to identify prime and composite numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 11-2</li> </ul> <p>Lesson 3 - Multiples</p> <ul style="list-style-type: none"> <li>Students will find multiples of a number.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 11-3</li> </ul> <p>Lesson 4 - Equivalent Fractions</p> <ul style="list-style-type: none"> <li>Students will use models and computation to show equivalent fractions.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 11-4</li> </ul> <p>Lesson 5 - Number Lines and Equivalent Fractions</p> <ul style="list-style-type: none"> <li>Students use a number line to identify and write equivalent fractions.</li> </ul>	<p>Review Test</p> <p>Topic Test</p>

		<p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 11-5</li> </ul> <p>Lesson 6 - Comparing Fractions</p> <ul style="list-style-type: none"> <li>• Students will use benchmark fractions to compare fractions with unlike denominators.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 11-6</li> </ul> <p>Lesson 7 - Ordering Fractions</p> <ul style="list-style-type: none"> <li>• Students will use common denominators and equivalent fractions to order fractions with unlike denominators.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 11-7</li> </ul> <p>Lesson 8 - Writing to Explain</p> <ul style="list-style-type: none"> <li>• Students will write to explain whether an answer is correct or not.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 11-8</li> </ul>	
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## Unit 12 - Adding and Subtracting Fractions and Mixed Numbers with Like Denominators

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<b>Priority Standards</b> 4.NF.A.1	Mixed Number	Lesson 1 - Modeling Addition of Fractions	Review Test

<p>4.NF.B.4</p> <p><b><u>Supporting Standards</u></b></p> <p>4.NF.A.2</p> <p>4.NF.A.3</p> <p>4.NF.B.5</p> <p>4.NF.B.6</p> <p>4.NF.B.7</p>	<p>Improper fraction</p>	<ul style="list-style-type: none"> <li>Students will use models to add fractions with like denominators.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 12-1</li> </ul> <p>Lesson 2 - Adding Fractions with Like Denominators</p> <ul style="list-style-type: none"> <li>Students will use computational procedures to add fractions with like denominators and solve problems</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 12-2</li> </ul> <p>Lesson 3 - Modeling Subtraction of Fractions</p> <ul style="list-style-type: none"> <li>Students will use models to subtract fractions with like denominators.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 12-3</li> </ul> <p>Lesson 4 - Subtracting Fractions with Like Denominators</p> <ul style="list-style-type: none"> <li>Students will use computational procedures to subtract fractions with like denominators and solve problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 12-4</li> </ul> <p>Lesson 5 - Adding and Subtracting on the Number Line</p> <ul style="list-style-type: none"> <li>Students will use the number line</li> </ul>	<p>Topic Test</p>
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		<p>to add and subtract fractions with like denominators.</p> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 12-5</li> </ul> <p>Lesson 6 - Improper Fractions and Mixed Numbers</p> <ul style="list-style-type: none"> <li>• Students will identify and write mixed numbers as improper fractions and improper fractions as mixed numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 12-6</li> </ul> <p>Lesson 7 - Modeling Addition and Subtraction of Mixed Numbers</p> <ul style="list-style-type: none"> <li>• Students will use models to add and subtract mixed numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 12-7</li> </ul> <p>Lesson 8 - Adding Mixed Numbers</p> <ul style="list-style-type: none"> <li>• Students will use models and computational procedures to add mixed numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 12-8</li> </ul> <p>Lesson 9 - Subtracting Mixed Numbers</p> <ul style="list-style-type: none"> <li>• Students will use models and computational procedures to subtract mixed numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> </ul>	
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		<ul style="list-style-type: none"> <li>• WS 12-9</li> </ul> <p>Lesson 10 - Decomposing and Composing Fractions</p> <ul style="list-style-type: none"> <li>• Students will decompose fractions and represent them as compositions of fractions in a variety of ways.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 12-10</li> </ul> <p>Lesson 11 - Draw a Picture and Write an Equation</p> <ul style="list-style-type: none"> <li>• Students will draw a picture and write an equation to solve a problem.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 12-11</li> </ul>	
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### Unit 13 - Extending Fraction Concepts

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.NF.B.7 4.NF.C.10 4.NF.C.11</p> <p><b><u>Supporting Standards</u></b></p> <p>4.NF.B.4</p>	<p>Unit fraction Decimal point Hundredth tenth</p>	<p>Lesson 1 - Fractions as Multiples of Unit Fractions: Using Models</p> <ul style="list-style-type: none"> <li>• Students will use unit fractions and multiplication to describe fractions that are multiples of the unit fraction.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 13-1</li> </ul>	<p>Review Test Topic Test</p>



<p>4.NF.B.5 4.NF.B.6 4.NF.C.9 4.NF.C.12</p>		<p>Lesson 2 - Multiplying a Fraction by a Whole Number: Using Models</p> <ul style="list-style-type: none"> <li>Students will multiply a fraction by a whole number using models.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 13-2</li> </ul> <p>Lesson 3 - Multiplying a Fraction by a Whole Number: Using Symbols</p> <ul style="list-style-type: none"> <li>Students will multiply a whole number and a fraction to solve a problem.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 13-3</li> </ul> <p>Lesson 4 - Fractions and Decimals</p> <ul style="list-style-type: none"> <li>Students will understand how to write fractions as decimals and decimals as fractions.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 13-4</li> </ul> <p>Lesson 5 - Fractions and Decimals on the Number Line</p> <ul style="list-style-type: none"> <li>Students will learn to locate and name fractions and decimals on a number line.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 13-5</li> </ul> <p>Lesson 6 - Equivalent Fractions and Decimals</p> <ul style="list-style-type: none"> <li>Students will understand how to</li> </ul>	
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		<p>use equivalent fractions to write fractions as decimals.</p> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 13-6</li> </ul> <p>Lesson 7 - Decimal Place Value</p> <ul style="list-style-type: none"> <li>• Students will use models and place-value charts to represent decimals to hundredths. They will read and write decimals in expanded, standard, and word form.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 13-7</li> </ul> <p>Lesson 8 - Comparing and Ordering Decimals</p> <ul style="list-style-type: none"> <li>• Students will use models and place-value charts to compare decimals to hundredths. They will use greater-than and less-than symbols to order decimal numbers.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 13-8</li> </ul> <p>Lesson 9 - Using Money to Understand Decimals</p> <ul style="list-style-type: none"> <li>• Students will use place-value charts to read, write, and compare decimals in tenths and hundredths using money.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 13-9</li> </ul>	
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		<p>Lesson 10 - Draw a Picture</p> <ul style="list-style-type: none"> <li>Students will solve problems using the strategy Draw a Picture.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 13-10</li> </ul>	
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#### Unit 14 - Measurement Units and Conversions

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.GM.C.7</p> <p><b><u>Supporting Standards</u></b></p> <p>4.GM.C.6</p> <p>4.GM.C.8</p>	<p>Inch</p> <p>Foot</p> <p>Yard</p> <p>Mile</p> <p>Capacity</p> <p>Weight</p> <p>Ounce</p> <p>Pound</p> <p>Ton</p> <p>Millimeter</p> <p>Centimeter</p> <p>Decimeter</p> <p>Meter</p> <p>Kilometer</p> <p>Millimeter</p> <p>Liter</p> <p>Mass</p> <p>Gram</p> <p>kilogram</p>	<p>Lesson 1 - Using Customary Units of Length</p> <ul style="list-style-type: none"> <li>Students will estimate and measure length by choosing the most appropriate unit of length.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 14-1</li> </ul> <p>Lesson 2 - Customary Units of Capacity</p> <ul style="list-style-type: none"> <li>Students will estimate fluently with customary capacity units (cups, pints, quarts, and gallons.) They will compare the relative sizes of capacity measurements.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 14-2</li> </ul> <p>Lesson 3 - Units of Weight</p> <ul style="list-style-type: none"> <li>Students will estimate fluently and measure with units of weight.</li> </ul> <p>Activities:</p>	<p>Review Test</p> <p>Topic Test</p>

		<ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-3</li> </ul> <p>Lesson 4 - Changing Customary Units</p> <ul style="list-style-type: none"> <li>• Students will be able to convert between customary units.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-4</li> </ul> <p>Lesson 5 - Writing to Explain</p> <ul style="list-style-type: none"> <li>• Students will solve and explain the answers to each problem in writing.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-5</li> </ul> <p>Lesson 6 - Using Metric Units of Length</p> <ul style="list-style-type: none"> <li>• Students will estimate and measure length to the nearest centimeter and choose the most appropriate metric unit for measuring length.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-6</li> </ul> <p>Lesson 7 - Metric Units of Capacity</p> <ul style="list-style-type: none"> <li>• Students will estimate fluently with milliliters and liters. They will measure capacity using these metric units.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-7</li> </ul> <p>Lesson 8 - Units of Mass</p> <ul style="list-style-type: none"> <li>• Students will estimate and</li> </ul>	
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		<p>measure with units of mass - grams and kilograms.</p> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-8</li> </ul> <p>Lesson 9 - Changing Metric Units</p> <ul style="list-style-type: none"> <li>• Students will be able to convert between metric units.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-9</li> </ul> <p>Lesson 10 - Units of Time</p> <ul style="list-style-type: none"> <li>• Students will compare several different units of time and freely convert from one unit of time to another.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-10</li> </ul> <p>Lesson 11 - Work Backward</p> <ul style="list-style-type: none"> <li>• Students will solve problems that require finding the original times, measurements, or quantities that led to a result that is given.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 14-11</li> </ul>	
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### Unit 15 - Solving Measurement Problems

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
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<p><b><u>Priority Standards</u></b>  4.DS.A.3  4.GM.C.7</p> <p><b><u>Supporting Standards</u></b>  4.DS.A.1  4.DS.A.2  4.GM.C.6  4.GM.C.8</p>	<p>Perimeter  Area  Line plot</p>	<p>Lesson 1 - Perimeter and Area Problems</p> <ul style="list-style-type: none"> <li>Students will use the formulas for the perimeter and area of a rectangle to solve real world problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 15-1</li> </ul> <p>Lesson 2 - Measurement Problems</p> <ul style="list-style-type: none"> <li>Students will use diagrams to show data and analyze how the quantities are related to solve real world measurement problems.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 15-2</li> </ul> <p>Lesson 3 - Money Problems</p> <ul style="list-style-type: none"> <li>Students will solve real world problems that involve money and giving change by counting.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 15-3</li> </ul> <p>Lesson 4 - Problems Involving Line Plots</p> <ul style="list-style-type: none"> <li>Students will construct line plots using given data and use the line plot to answer questions about the data set.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 15-4</li> </ul> <p>Lesson 5 - Solve a Simpler Problem and Make a Table</p> <ul style="list-style-type: none"> <li>Students will break a problem into</li> </ul>	<p>Review Test  Topic Test</p>
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		<p>smaller, more manageable pieces and find a pattern to fit it.</p> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 15-5</li> </ul>	
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## Unit 16: Lines, Angles, and Shapes

Standards	Vocabulary	Activities/Resources	Formative/Summative Assessments
<p><b><u>Priority Standards</u></b></p> <p>4.GM.A.2 4.GM.B.4</p> <p><b><u>Supporting Standards</u></b></p> <p>4.GM.A.1 4.GM.A.3 4.GM.B.5</p>	<p>Point Line Plane Parallel lines Intersecting lines Line segment Ray Angle Right angle Acute angle Obtuse angle Straight angle Degree Unit angle Angle measure Protractor Polygon Side Vertex Triangle Quadrilateral Pentagon Hexagon Octagon</p>	<p>Lesson 1 - Points, Lines, and Planes</p> <ul style="list-style-type: none"> <li>• Students will identify and describe points, lines, and planes.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 16-1</li> </ul> <p>Lesson 2 - Line Segments, Rays, and Angles</p> <ul style="list-style-type: none"> <li>• Students will learn geometric terms to describe parts of lines and types of angles.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 16-2</li> </ul> <p>Lesson 3 - Understanding Angles and Unit Angles</p> <ul style="list-style-type: none"> <li>• Students will use unit angles and fractions of a circle to find angle measures.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>• Guided Practice</li> <li>• WS 16-3</li> </ul>	<p>Review Test Topic Test</p>

	<p>Equilateral triangle  Isosceles triangle  Scalene triangle  Right triangle  Acute triangle  Obtuse triangle  Rhombus  Trapezoid  Parallelogram  Rectangle  Square  Symmetric  Line of symmetry</p>	<p>Lesson 4 - Measuring With Unit Angles</p> <ul style="list-style-type: none"> <li>Students will use a smaller angle to measure a larger angle by repeating the unit.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-4</li> </ul> <p>Lesson 5 - Measuring Angles</p> <ul style="list-style-type: none"> <li>Students will be able to measure and draw angles.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-5</li> </ul> <p>Lesson 6 - Adding and Subtracting Angle Measures</p> <ul style="list-style-type: none"> <li>Students will find unknown angle measures by adding and subtracting.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-6</li> </ul> <p>Lesson 7 - Polygons</p> <ul style="list-style-type: none"> <li>Students will learn to identify polygons.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-7</li> </ul> <p>Lesson 8 - Triangles</p> <ul style="list-style-type: none"> <li>Students will learn to identify and classify triangles.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-8</li> </ul>	
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		<p>Lesson 9 - Quadrilaterals</p> <ul style="list-style-type: none"> <li>Students will learn to identify quadrilaterals.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-9</li> </ul> <p>Lesson 10 - Line Symmetry</p> <ul style="list-style-type: none"> <li>Students will determine if a plane figure has line symmetry and, if so, how many lines of symmetry it has.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-10</li> </ul> <p>Lesson 11 - Make and Test Generalizations</p> <ul style="list-style-type: none"> <li>Students will solve problems by making and testing generalizations.</li> </ul> <p>Activities:</p> <ul style="list-style-type: none"> <li>Guided Practice</li> <li>WS 16-11</li> </ul>	
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