

Houghton Mifflin Harcourt
Waggle, Grade 2

Product to Product Correlation to
Math Expressions, Grade 2 © 2018
Common Core Edition

Math Expressions, Grade 2 Lessons	Waggle, Grade 2 Goals and Skills
Unit 1: Addition and Subtraction Within 20	
1.1 Represent Addition and Subtraction	Add and Subtract Within 20 <ul style="list-style-type: none">• Addition to 20• Subtraction Within 20 Add and Subtract Within 1,000 <ul style="list-style-type: none">• Addition and Subtraction Strategies
1.2 Relate Addition and Subtraction	Add and Subtract Within 20 <ul style="list-style-type: none">• Addition to 20• Subtraction Within 20
1.3 Make-a-Ten Strategies	Add and Subtract Within 20 <ul style="list-style-type: none">• Addition to 20• Subtraction Within 20 Add and Subtract Within 1,000 <ul style="list-style-type: none">• Addition and Subtraction Strategies
1.4 Relate Unknown Addends and Subtraction	Add and Subtract Within 20 <ul style="list-style-type: none">• Addition to 20• Subtraction Within 20

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1.5 More Practice with Unknown Addends and Teen Totals	Add to 100 <ul style="list-style-type: none"> • Solve Addition Word Problems Subtract Within 100 <ul style="list-style-type: none"> • Solve Subtraction Word Problems Add and Subtract Within 20 <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.6 Odd and Even Numbers	Even and Odd Numbers <ul style="list-style-type: none"> • Even and Odd Numbers Mental Math <ul style="list-style-type: none"> • Skip-Counting
1.7 Strategies Using Doubles	Add and Subtract Within 20 <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 Even and Odd Numbers <ul style="list-style-type: none"> • Even Numbers as Sums
1.8 Equations, Equation Chains, and Vertical Form	Add and Subtract Within 20 <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20

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1.9 Add Three or Four Addends	<p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition and Subtraction Strategies
1.10 <i>Add To</i> and <i>Take From</i> Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.11 <i>Add To</i> and <i>Take From</i> Problems-Unknown in All Positions	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20

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1.12 <i>Put Together/Take Apart</i> Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.13 Special <i>Put Together/Take Apart</i> Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.14 <i>Compare</i> Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20

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1.15 More <i>Compare</i> Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.16 Mixed Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.17 Problems with Not Enough, Extra, or Hidden Information	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20

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1.18 More Complex <i>Compare</i> Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.19 Two-Step Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20
1.20 Mixed Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20

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1.21 Focus on Mathematical Practices	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 <p>Even and Odd Numbers</p> <ul style="list-style-type: none"> • Even and Odd Numbers • Even Numbers as Sums
Unit 2: Addition Within 200	
2.1 Ones, Tens, and Hundred	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Mental Math</p> <ul style="list-style-type: none"> • Count to 1,000 <p>Work with Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000
2.2 Draw Quick Tens and Quick Hundreds	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Mental Math</p> <ul style="list-style-type: none"> • Count to 1,000 <p>Work with Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000
2.3 Represent Numbers in Different Ways	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Mental Math</p> <ul style="list-style-type: none"> • Count to 1,000 <p>Work with Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000

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2.4 Combine Ones, Tens, and Hundreds	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Work with Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000 <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game)
2.5 Compare Numbers Within 200	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Three-Digit Numbers • Work With Hundreds <p>Work with Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000 • Compare Three-Digit Numbers
2.6 Explore 2-Digit Addition	<p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies

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2.7 Addition-Show All Totals Method	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
2.8 Addition-New Groups Below Method	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 <p>Mental Math</p> <ul style="list-style-type: none"> • Mental Subtraction • Mental Addition
2.9 Practice Addition with Sums over 100	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 <p>Mental Math</p> <ul style="list-style-type: none"> • Mental Subtraction • Mental Addition

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2.10 Choose an Addition Method	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 <p>Mental Math</p> <ul style="list-style-type: none"> • Mental Subtraction • Mental Addition
2.11 Buy with Pennies and Dimes	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 <p>Mental Math</p> <ul style="list-style-type: none"> • Mental Subtraction • Mental Addition
2.12 Pennies, Nickels, and Dimes	<p>Mental Math</p> <ul style="list-style-type: none"> • Skip-Counting <p>Time and Money</p> <ul style="list-style-type: none"> • Money
2.13 Fluency: Addition Within 100	<p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game)

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2.14 Add Three or Four 2-Digit Addends	<p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000
2.15 Focus on Mathematical Practices	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Mental Math</p> <ul style="list-style-type: none"> • Skip-Counting <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) • Solve Subtraction Word Problems <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 <p>Time and Money</p> <ul style="list-style-type: none"> • Money

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Unit 3: Length and Shapes	
3.1 Measure Length	Measure Length <ul style="list-style-type: none"> • Use Tools to Measure Length Solve Problems with Length <ul style="list-style-type: none"> • Find the Difference Between Lengths
3.2 Recognize and Draw Shapes	Flat and Solid Shapes <ul style="list-style-type: none"> • Features of Shapes
3.3 Estimate and Measure	Measure Length <ul style="list-style-type: none"> • Use Tools to Measure Length Solve Problems with Length <ul style="list-style-type: none"> • Estimate Length
3.4 Draw, Estimate, and Measure	Measure Length <ul style="list-style-type: none"> • Use Tools to Measure Length Solve Problems with Length <ul style="list-style-type: none"> • Estimate Length
3.5 Draw Using Faces	Flat and Solid Shapes <ul style="list-style-type: none"> • Features of Shapes
3.6 Estimate and Measure with Centimeters	Measure Length <ul style="list-style-type: none"> • Use Tools to Measure Length • Line Plots Solve Problems with Length <ul style="list-style-type: none"> • Estimate Length • Find the Difference Between Lengths
3.7 Estimate and Measure with Inches	Measure Length <ul style="list-style-type: none"> • Use Tools to Measure Length • Measure Length with Difference Units Solve Problems with Length <ul style="list-style-type: none"> • Estimate Length

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3.8 Measure for and Make Line Plots	Measure Length <ul style="list-style-type: none"> • Use Tools to Measure Length • Measure Length with Difference Units Measure Length <ul style="list-style-type: none"> • Line Plots
3.9 Focus on Mathematical Practices	Add to 100 <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) Subtract Within 100 <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) Measure Length <ul style="list-style-type: none"> • Use Tools to Measure Length • Measure Length with Difference Units Flat and Solid Shapes <ul style="list-style-type: none"> • Features of Shapes
Unit 4: Subtract 2-Digit Numbers	
4.1 Explore Quarters	Time and Money <ul style="list-style-type: none"> • Money
4.2 Explore Dollars	Time and Money <ul style="list-style-type: none"> • Money

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4.3 Addends and Subtraction	<p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
4.4 Subtraction Word Problems	<p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems
4.5 Two Methods of Subtraction	<p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
4.6 Practice and Explain a Method	<p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Subtraction Within 20 <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies

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4.7 Subtract from 200	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Make 100 • Work with Hundreds <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies
4.8 Ungroup from the Left or from the Right	<p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies
4.9 Zero in the Ones or Tens Place	<p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies
4.10 Model Subtraction with Money	<p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies <p>Time and Money</p> <ul style="list-style-type: none"> • Money
4.11 Fluency: Subtraction Within 100	<p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game)
4.12 Word Problems with Addition and Subtraction	<p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems

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4.13 Equations with Greater Numbers	<p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000
4.14 Practice Addition and Subtraction	<p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game)
4.15 Buy and Sell with One Dollar	<p>Mental Math</p> <ul style="list-style-type: none"> • Count to 1,000 <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 <p>Time and Money</p> <ul style="list-style-type: none"> • Money

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4.16 Word Problems with Unknown Addends	<p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game)
4.17 More Word Problems with Unknown Addends	<p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) • Solve Subtraction Word Problems <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies

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4.18 <i>Start Unknown</i> Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) • Solve Subtraction Word Problems <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition and Subtraction Strategies
4.19 <i>Compare</i> Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) • Solve Subtraction Word Problems
4.20 Mixed Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) • Solve Subtraction Word Problems

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4.21 Two-Step Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game)
4.22 More Two-Step Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) • Solve Subtraction Word Problems

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4.23 Focus on Mathematical Practices	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems • Two-Step Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) • Solve Subtraction Word Problems <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 <p>Measure Length</p> <ul style="list-style-type: none"> • Use Tools to Measure Length <p>Solve Problems With Length</p> <ul style="list-style-type: none"> • Estimate Length • Find the Difference Between Lengths • Add and Subtract Lengths
Unit 5: Time, Graphs, and Word Problems	
5.1 Hours and A.M. or P.M.	<p>Time and Money</p> <ul style="list-style-type: none"> • Tell and Write Time
5.2 Hours and Minutes	<p>Mental Math</p> <ul style="list-style-type: none"> • Skip-Counting <p>Time and Money</p> <ul style="list-style-type: none"> • Tell and Write Time
5.3 Discuss Picture Graphs	<p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 <p>Graphs</p> <ul style="list-style-type: none"> • Draw Picture Graphs

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5.4 Read Picture Graphs	Add and Subtract Within 20 <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 Graphs <ul style="list-style-type: none"> • Draw Picture Graphs
5.5 Introduce Bar Graphs	Add and Subtract Within 20 <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 Graphs <ul style="list-style-type: none"> • Solve Problems Using Bar Graphs • Draw Bar Graphs
5.6 Read Bar Graphs	Graphs <ul style="list-style-type: none"> • Solve Problems Using Bar Graphs • Draw Bar Graphs
5.7 Solve Problems Using a Bar Graph	Add to 100 <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) Subtract Within 100 <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) Graphs <ul style="list-style-type: none"> • Solve Problems Using Bar Graphs • Draw Bar Graphs

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5.8 Collect and Graph Data	<p>Add to 100</p> <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) <p>Graphs</p> <ul style="list-style-type: none"> • Solve Problems Using Bar Graphs • Draw Picture Graphs • Draw Bar Graphs
5.9 Make Graphs and Interpret Data	<p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 <p>Graphs</p> <ul style="list-style-type: none"> • Solve Problems Using Bar Graphs • Draw Picture Graphs • Draw Bar Graphs
5.10 Focus on Mathematical Practices	<p>Add and Subtract Within 20</p> <ul style="list-style-type: none"> • Addition to 20 • Subtraction Within 20 <p>Work With Three-Digit Numbers</p> <ul style="list-style-type: none"> • Compare Three-Digit Numbers <p>Graphs</p> <ul style="list-style-type: none"> • Solve Problems Using Bar Graphs • Draw Picture Graphs • Draw Bar Graphs

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Unit 6: 3-digit Addition and Subtraction	
6.1 Count Numbers to 1,000	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Three-Digit Numbers • Make 100 • Work With Hundreds <p>Mental Math</p> <ul style="list-style-type: none"> • Count to 1,000 <p>Work With Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000
6.2 Place Value	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Three-Digit Numbers • Make 100 • Work With Hundreds <p>Work With Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000
6.3 Compare Numbers Within 999	<p>Work With Three-Digit Numbers</p> <ul style="list-style-type: none"> • Compare Three-Digit Numbers
6.4 Count by Ones and by Tens	<p>Hundreds, Tens, and Ones</p> <ul style="list-style-type: none"> • Three-Digit Numbers • Make 100 • Work With Hundreds <p>Mental Math</p> <ul style="list-style-type: none"> • Skip-Counting <p>Work With Three-Digit Numbers</p> <ul style="list-style-type: none"> • Read and Write Numbers to 1,000
6.5 Add Ones, Tens, and Hundreds	<p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies

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Math Expressions, Grade 2 Lessons	Waggle, Grade 2 Goals and Skills
6.6 3-Digit Addition	Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
6.7 Discuss 3-Digit Addition	Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
6.8 Word Problems: Unknown Addends	Add to 100 <ul style="list-style-type: none"> • Addition to 100 • Addition Within 100 (Game) • Solve Addition Word Problems Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Addition to 1,000 • Addition and Subtraction Strategies
6.9 Subtract from Hundreds Numbers	Subtract Within 100 <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies
6.10 Subtract from Numbers with Zeros	Subtract Within 100 <ul style="list-style-type: none"> • Subtraction Within 100 • Subtraction Within 100 (Game) Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies

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6.11 Subtract from Any 3-Digit Number	Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Subtraction Within 1,000 • Addition and Subtraction Strategies
6.12 Practice Ungrouping	Hundreds, Tens, and Ones <ul style="list-style-type: none"> • Three-Digit Numbers • Make 100 • Work With Hundreds Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
6.13 Relationships Between Addition and Subtraction Methods	Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
6.14 Mixed Addition and Subtraction Word Problems	Word Problems <ul style="list-style-type: none"> • Represent Word Problems Add to 100 <ul style="list-style-type: none"> • Solve Addition Word Problems Subtract Within 100 <ul style="list-style-type: none"> • Solve Subtraction Word Problems Add and Subtract Within 1,000 <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000

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6.15 Focus on Mathematical Practices	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Work with Three-Digit Numbers</p> <ul style="list-style-type: none"> • Compare Three-Digit Numbers <p>Add and Subtract Within 1,000</p> <ul style="list-style-type: none"> • Addition to 1,000 • Subtraction Within 1,000 • Addition and Subtraction Strategies
Unit 7: Arrays, Equal Shares, and Adding or Subtracting Lengths	
7.1 Arrays, Partitioned Rectangles, and Equal Shares	<p>Work with Addition</p> <ul style="list-style-type: none"> • Arrays • Add Equal Groups <p>Flat and Solid Shapes</p> <ul style="list-style-type: none"> • Features of Shapes • Make Squares in Rectangles • Make Equal Shares
7.2 Find Equal Shares	<p>Flat and Solid Shapes</p> <ul style="list-style-type: none"> • Features of Shapes • Make Equal Shares
7.3 Length Word Problems and Number Line Diagrams	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Solve Problems with Length</p> <ul style="list-style-type: none"> • Add and Subtract Lengths

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7.4 Add Three and Four Lengths	<p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Solve Problems with Length</p> <ul style="list-style-type: none"> • Add and Subtract Lengths
7.5 More Length Word Problems	<p>Word Problems</p> <ul style="list-style-type: none"> • Represent Word Problems <p>Add to 100</p> <ul style="list-style-type: none"> • Solve Addition Word Problems <p>Subtract Within 100</p> <ul style="list-style-type: none"> • Solve Subtraction Word Problems <p>Work with Addition</p> <ul style="list-style-type: none"> • Add More Than Two Numbers <p>Solve Problems with Length</p> <ul style="list-style-type: none"> • Add and Subtract Lengths
7.6 Focus on Mathematical Practices	<p>Work with Addition</p> <ul style="list-style-type: none"> • Arrays • Equal Groups <p>Flat and Solid Shapes</p> <ul style="list-style-type: none"> • Make Squares in Rectangles • Make Equal Shares

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Unit 1: Multiplication and Division With 0-5, 9, and 10	
1.1 Multiply with 5	Represent Multiplication <ul style="list-style-type: none">• Understand Multiplication Multiply Whole Numbers <ul style="list-style-type: none">• Multiply Within 100• Multiplying Within 100 (Game) Patterns <ul style="list-style-type: none">• Identify Number Patterns
1.2 Multiplication as Equal Groups	Represent Multiplication <ul style="list-style-type: none">• Understand Multiplication Multiply Whole Numbers <ul style="list-style-type: none">• Solve Problems With Multiplication• Multiply Within 100• Multiplying Within 100 (Game)
1.3 Multiplication and Arrays	Represent Multiplication <ul style="list-style-type: none">• Understand Multiplication Multiply Whole Numbers <ul style="list-style-type: none">• Solve Problems With Multiplication• Multiply Within 100• Multiplying Within 100 (Game)

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1.4 The Meaning of Division	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game)
1.5 Multiply and Divide with 2	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns

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1.6 Build Fluency with 2s and 5s	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns
1.7 Multiply and Divide with 10	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns

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1.8 Multiply and Divide with 9	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns
1.9 Build Fluency with 2s, 5s, 9s, and 10s	<p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game)

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1.10 Multiply and Divide with 3	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns
1.11 Multiplication and Area	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Apply Properties of Operations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Understand Area</p> <ul style="list-style-type: none"> • Understand Square Units • Understand Area • Measure Area by Counting Unit Squares <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Tiling • Area of Rectangles by Multiplying • Use the Distributive Property to Find Area • Area of Figures Made of Rectangles

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1.12 Multiply and Divide with 4	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Use the Distributive Property to Find Area • Area of Figures Made of Rectangles
1.13 Use the Strategy Cards	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) • Solve Problems With Division <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Use the Distributive Property to Find Area

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1.14 Build Fluency with 2s, 3s, 4s, 5s, 9s, and 10s	<p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game)
1.15 Multiply and Divide with 1 and 0	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns
1.16 Solve and Create Word Problems	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division

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1.17 Practice Multiplication and Division	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game)
1.18 Build Fluency with 0s, 1s, 2s, 3s, 4s, 5s, 9s, and 10s	<p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game)

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1.19 Focus on Mathematical Practices	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns
Unit 2: Multiplication and Division with 65, 75, 85 and Multiply with Multiples of 10	
2.1 Multiply and Divide with 6	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns

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2.2 Solve Area Word Problems	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Understand Area</p> <ul style="list-style-type: none"> • Understand Square Units • Understand Area • Measure Area by Counting Unit Squares <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Tiling • Area of Rectangles by Multiplying
2.3 Multiply and Divide with 8	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Missing Numbers in Multiplication Equations • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Missing Numbers in Division Equations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns

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2.4 Write Word Problems and Equations	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division
2.5 Multiply and Divide with 7	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Missing Numbers in Division Equations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns
2.6 Square Numbers	<p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Multiplying

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2.7 Practice with 6s, 7s, and 8s	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game)
2.8 Build Fluency with 0s-10s	<p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game)
2.9 Equations and Word Problems	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
2.10 Write First-Step Questions for Two-Step Problems	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division <p>Two-Step Word Problems</p> <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems
2.11 Make Sense of Two-Step Word Problems	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division <p>Two-Step Word Problems</p> <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems • Is the Answer Reasonable?

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
2.12 Multiply with Multiples of 10	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Apply Properties of Operations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) • Multiply by Multiplies of 10
2.13 Play Multiplication and Division Games	<p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Multiplication • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems With Division • Divide Within 100 • Dividing Within 100 (Game)
2.14 Build Fluency with 0s-10s	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Relate Multiplication and Division • Missing Numbers in Division Equations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 <p>Dividing Within 100 (Game)</p>

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
2.15 Focus on Mathematical Practices	<p>Represent Multiplication</p> <ul style="list-style-type: none"> • Understand Multiplication • Missing Numbers in Multiplication Equations • Apply Properties of Operations <p>Represent Division</p> <ul style="list-style-type: none"> • Understand Division • Missing Numbers in Division Equations <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Within 100 • Multiplying Within 100 (Game) • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide Within 100 • Dividing Within 100 (Game) • Solve Problems with Division <p>Patterns</p> <ul style="list-style-type: none"> • Identify Number Patterns
Unit 3: Multi-Digit Addition Subtraction and Multiplication	
3.1 Make Place Value Drawings	This skill is taught in <i>Waggle</i> Grade 2.
3.2 Build Numbers	This skill is taught in <i>Waggle</i> Grade 2.
3.3 Place Value in Word Problems	This skill is taught in <i>Waggle</i> Grade 2.
3.4 Practice with Place Value	This skill is taught in <i>Waggle</i> Grade 2.
3.5 Round to the Nearest Hundred	<p>Round Whole Numbers</p> <ul style="list-style-type: none"> • Round to the Nearest 100
3.6 Round to the Nearest Ten	<p>Round Whole Numbers</p> <ul style="list-style-type: none"> • Round to the Nearest 10

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
3.7 Explore Multidigit Addition	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game)
3.8 Discuss Addition Methods	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game)
3.9 The Grouping Concept in Addition	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game)
3.10 Practice Addition	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game)
3.11 Ungroup to Subtract	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
3.12 Subtract Across Zeros	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
3.13 Discuss Methods of Subtracting	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
3.14 Relate Addition and Subtraction	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
3.15 Subtraction Practice	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
3.16 Addition and Subtraction Practice	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
3.17 Solve Word Problems	Two-Step Word Problems <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems • Is the Answer Reasonable? Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
3.18 Focus on Mathematical Practices	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
Unit 4: Fractions, Time, And Data	
4.1 Understand Fractions	Represent Fractions <ul style="list-style-type: none"> • Understand Fractions • Relate Fractions to Area

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
4.2 Model Fractions	Represent Fractions <ul style="list-style-type: none"> • Understand Unit Fractions • Understand Fractions • Unit Fractions on a Number Line • Fractions on a Number Line
4.3 Locate Fractions on the Number Line	Represent Fractions <ul style="list-style-type: none"> • Unit Fractions on a Number Line • Fractions on a Number Line
4.4 Compare Unit Fractions	Represent Fractions <ul style="list-style-type: none"> • Unit Fractions on a Number Line • Fractions on a Number Line Compare Fractions <ul style="list-style-type: none"> • Compare Fractions with Like Numerators
4.5 Compare Fractions	Compare Fractions <ul style="list-style-type: none"> • Compare Fractions with Like Denominators • Compare Fractions with Like Numerators
4.6 Customary Units of Length	Line Plots <ul style="list-style-type: none"> • Line Plots with Lengths • Measure Length to the Nearest Quarter Inch
4.7 Tell Time	Time <ul style="list-style-type: none"> • Time
4.8 Before and After the Hour	Time <ul style="list-style-type: none"> • Time
4.9 Elapsed Time	Time <ul style="list-style-type: none"> • Solve Problems Involving Time • Time

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
4.10 Add and Subtract Time	Time <ul style="list-style-type: none"> • Solve Problems Involving Time • Time
4.11 Solve Word Problems Involving Time	Time <ul style="list-style-type: none"> • Solve Problems Involving Time • Time
4.12 Read and Create Pictographs and Bar Graphs	Picture Graphs and Bar Graphs <ul style="list-style-type: none"> • Bar Graphs • Solve Problems with Bar Graphs • Picture Graphs
4.13 Read and Create Bar Graphs with Multidigit Numbers	Picture Graphs and Bar Graphs <ul style="list-style-type: none"> • Bar Graphs • Solve Problems with Bar Graphs
4.14 Represent and Organize Data	Picture Graphs and Bar Graphs <ul style="list-style-type: none"> • Bar Graphs • Solve Problems with Bar Graphs • Picture Graphs Line Plots <ul style="list-style-type: none"> • Line Plots with Lengths
4.15 Use Graphs to Solve Time and Measurement Word Problems	Picture Graphs and Bar Graphs <ul style="list-style-type: none"> • Bar Graphs • Solve Problems with Bar Graphs Line Plots <ul style="list-style-type: none"> • Line Plots with Lengths

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
4.16 Focus on Mathematical Practices	<p>Time</p> <ul style="list-style-type: none"> • Solve Problems Involving Time • Time <p>Line Plots</p> <ul style="list-style-type: none"> • Line Plots with Lengths
Unit 5: Measurement and Fractions	
5.1 Perimeter and Area	<p>Understand Area</p> <ul style="list-style-type: none"> • Understand Square Units • Understand Area • Measure Area by Counting Unit Squares <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Tiling • Area of Rectangles by Multiplying <p>Perimeter and Area</p> <ul style="list-style-type: none"> • Perimeter of Polygons • Perimeter and Area
5.2 Side Lengths with Area and Perimeter	<p>Understand Area</p> <ul style="list-style-type: none"> • Measure Area by Counting Unit Squares <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Tiling • Area of Rectangles by Multiplying • Area of Rectangles Made of Rectangles <p>Perimeter and Area</p> <ul style="list-style-type: none"> • Perimeter of Polygons • Perimeter and Area

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
5.3 Compare Areas and Perimeters	<p>Understand Area</p> <ul style="list-style-type: none"> • Understand Square Units • Understand Area <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Multiplying <p>Perimeter and Area</p> <ul style="list-style-type: none"> • Perimeter of Polygons • Perimeter and Area
5.4 Area of Rectilinear Figures	<p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Multiplying • Area of Figures Made of Rectangles
5.5 Solve Perimeter and Area Problems	<p>Understand Area</p> <ul style="list-style-type: none"> • Measure Area by Counting Unit Squares <p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Rectangles by Multiplying • Area of Figures Made of Rectangles <p>Perimeter and Area</p> <ul style="list-style-type: none"> • Perimeter of Polygons • Perimeter and Area
5.6 Tangram Shapes and Area	<p>Understand Area</p> <ul style="list-style-type: none"> • Understand Area • Measure Area by Counting Unit Squares
5.7 Introduce Equivalence	<p>Equivalent Fractions</p> <ul style="list-style-type: none"> • Understand Equivalent Fractions
5.8 Equivalent Fractions	<p>Equivalent Fractions</p> <ul style="list-style-type: none"> • Unit Fractions on a Number Line • Fractions on a Number Line • Understand Equivalent Fractions • Find Equivalent Fractions

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
5.9 Problem Solving with Fractions	<p>Equivalent Fractions</p> <ul style="list-style-type: none"> • Understand Equivalent Fractions • Find Equivalent Fractions <p>Compare Fractions</p> <ul style="list-style-type: none"> • Compare Fractions with Like Denominators • Compare Fractions with Like Numerators
5.10 Focus on Mathematical Practices	<p>Represent Fractions</p> <ul style="list-style-type: none"> • Understand Unit Fractions • Understand Fractions • Relate Fractions to Area <p>Equivalent Fractions</p> <ul style="list-style-type: none"> • Understand Equivalent Fractions • Find Equivalent Fractions <p>Compare Fractions</p> <ul style="list-style-type: none"> • Compare Fractions with Like Denominators • Compare Fractions with Like Numerators
Unit 6: Write Equations To Solve Word Problems	
6.1 Addition and Subtraction Situations	<p>Add and Subtract Whole Numbers</p> <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)

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6.2 Word Problems with Unknown Factors	<p>Add and Subtract Whole Numbers</p> <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game) <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Division <p>Represent Multiplication</p> <ul style="list-style-type: none"> • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Missing Numbers in Division Equations
6.3 Word Problems with Unknown Starts	<p>Add and Subtract Whole Numbers</p> <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game) <p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Division <p>Represent Multiplication</p> <ul style="list-style-type: none"> • Missing Numbers in Multiplication Equations <p>Represent Division</p> <ul style="list-style-type: none"> • Missing Numbers in Division Equations
6.4 Comparison Problems	<p>Add and Subtract Whole Numbers</p> <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
6.5 Comparison Problems with Misleading Language	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
6.6 Word Problems with Extra, Hidden, or Not Enough Information	Add and Subtract Whole Numbers <ul style="list-style-type: none"> • Adding to 1,000 • Adding Within 1,000 (Game) • Subtract Within 1,000 • Subtracting Within 1,000 (Game)
6.7 Write First-Step Questions for Two-Step Problems	Two-Step Word Problems <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems
6.8 Solve Two-Step Word Problems	Two-Step Word Problems <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems • Is the Answer Reasonable?
6.9 Equations and Two-Step Word Problems	Two-Step Word Problems <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems • Is the Answer Reasonable?
6.10 Practice with Two-Step Word Problems	Two-Step Word Problems <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems • Is the Answer Reasonable?

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
6.11 Focus on Mathematical Practices	<p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Division <p>Two-Step Word Problems</p> <ul style="list-style-type: none"> • Solve Two-Step Word Problems • Represent Two-Step Word Problems • Is the Answer Reasonable?
Unit 7: Measurement and Polygons	
7.1 Customary Units of Liquid Volume	<p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Division <p>Mass and Capacity</p> <ul style="list-style-type: none"> • Measure Capacity • Solve Capacity Problems
7.2 Metric Units of Liquid Volume	<p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Division <p>Mass and Capacity</p> <ul style="list-style-type: none"> • Measure Capacity • Solve Capacity Problems
7.3 Customary Units of Weight and Metric Units of Mass	<p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Division <p>Mass and Capacity</p> <ul style="list-style-type: none"> • Measure Mass • Solve Mass Problems

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Math Expressions, Grade 3 Lessons	Waggle, Grade 3 Goals and Skills
7.4 Solve Word Problems Involving Liquid Volume and Mass	<p>Multiply Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Multiplication <p>Divide Whole Numbers</p> <ul style="list-style-type: none"> • Solve Problems with Division <p>Mass and Capacity</p> <ul style="list-style-type: none"> • Measure Mass • Solve Mass Problems
7.5 Triangles	<p>Shapes</p> <ul style="list-style-type: none"> • Understand Categories of Shapes
7.6 Parallelograms, Rectangles, Squares, and Rhombuses	<p>Shapes</p> <ul style="list-style-type: none"> • Understand Categories of Shapes
7.7 Draw Quadrilaterals	<p>Shapes</p> <ul style="list-style-type: none"> • Identify Quadrilaterals
7.8 Classify Quadrilaterals	<p>Shapes</p> <ul style="list-style-type: none"> • Identify Quadrilaterals
7.9 Focus on Mathematical Practices	<p>Area of Rectangles</p> <ul style="list-style-type: none"> • Area of Figures Made of Rectangles <p>Perimeter and Area</p> <ul style="list-style-type: none"> • Perimeter of Shapes • Perimeter and Area <p>Shapes</p> <ul style="list-style-type: none"> • Understand Categories of Shapes • Identify Quadrilaterals

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
Unit 1: Place Value and Multidigit Addition and Subtraction	
1.1 Place Value to Thousands	Place Value <ul style="list-style-type: none">• Place Value in Whole Numbers
1.2 Place Value Patterns	Place Value <ul style="list-style-type: none">• Place Value in Whole Numbers• Read and Write Whole Numbers
1.3 Round Numbers	Place Value <ul style="list-style-type: none">• Read and Write Whole Numbers• Round Whole Numbers
1.4 Numbers to One Million	Place Value <ul style="list-style-type: none">• Place Value in Whole Numbers• Read and Write Whole Numbers
1.5 Compare and Round Greater Numbers	Place Value <ul style="list-style-type: none">• Compare Whole Numbers• Read and Write Whole Numbers• Round Whole Numbers
1.6 Make New Groups for Addition	Addition and Subtraction <ul style="list-style-type: none">• Add Whole Numbers• Adding Within 1,000,000 (Game)

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
1.7 Add Greater Numbers	Addition and Subtraction <ul style="list-style-type: none"> • Add Whole Numbers • Adding Within 1,000,000 (Game)
1.8 Estimation and Mental Math	Place Value <ul style="list-style-type: none"> • Round Whole Numbers Addition and Subtraction <ul style="list-style-type: none"> • Add Whole Numbers • Adding Within 1,000,000 (Game)
1.9 Subtract from Thousands	Addition and Subtraction <ul style="list-style-type: none"> • Subtract Whole Numbers • Subtracting Within 1,000,000 (Game)
1.10 Subtraction Undoes Addition	Addition and Subtraction <ul style="list-style-type: none"> • Subtract Whole Numbers • Subtracting Within 1,000,000 (Game)
1.11 Subtract Greater Numbers	Addition and Subtraction <ul style="list-style-type: none"> • Subtract Whole Numbers • Subtracting Within 1,000,000 (Game)
1.12 Practice Addition and Subtraction	Addition and Subtraction <ul style="list-style-type: none"> • Add Whole Numbers • Adding Within 1,000,000 (Game) • Subtract Whole Numbers • Subtracting Within 1,000,000 (Game)
1.13 Problem Solving with Greater Numbers	Addition and Subtraction <ul style="list-style-type: none"> • Add Whole Numbers • Adding Within 1,000,000 (Game) • Subtract Whole Numbers • Subtracting Within 1,000,000 (Game)

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
1.14 Focus on Mathematical Practices	Place Value <ul style="list-style-type: none"> • Round Whole Numbers Addition and Subtraction <ul style="list-style-type: none"> • Add Whole Numbers • Adding Within 1,000,000 (Game) • Subtract Whole Numbers • Subtracting Within 1,000,000 (Game)
Unit 2: Multiplication with Whole Numbers	
2.1 Arrays and Area Models	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.2 Connect Place Value and Multiplication	Place Value Division <ul style="list-style-type: none"> • Place Value in Whole Numbers Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.3 Mental Math and Multiplication	Place Value Division <ul style="list-style-type: none"> • Place Value in Whole Numbers Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.4 Model One-Digit by Two-Digit Multiplication	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.5 Estimate Products	Place Value <ul style="list-style-type: none"> • Round Whole Numbers Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.6 Use Place Value to Multiply	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
2.7 Algebraic Notation Method	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.8 Compare Methods of One-Digit by Two-Digit Multiplication	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.9 Discuss Different Methods	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.10 One-Digit by Three-Digit Multiplication	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.11 Multistep Word Problems	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers Multistep Word Problems <ul style="list-style-type: none"> • Solve Multistep Word Problems • Represent Multistep Word Problems
2.12 Two-Digit by Two-Digit Multiplication	Multiplication <ul style="list-style-type: none"> • Multiply by 2-Digit Numbers • Solve Multiplication Word Problems
2.13 Different Methods for Two-Digit Multiplication	Multiplication <ul style="list-style-type: none"> • Multiply by 2-Digit Numbers
2.14 Check Products of Two-Digit Numbers	Multiplication <ul style="list-style-type: none"> • Multiply by 2-Digit Numbers
2.15 Practice Multiplication	Multiplication <ul style="list-style-type: none"> • Multiply by 2-Digit Numbers • Solve Multiplication Word Problems
2.16 Multiply One-Digit and Four-Digit Numbers	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
2.17 Use the Shortcut Method	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers
2.18 Practice Multiplying	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers • Multiply by 2-Digit Numbers • Solve Multiplication Word Problems
2.19 Focus on Mathematical Practices	Multiplication <ul style="list-style-type: none"> • Multiply by 1-Digit Numbers • Multiply by 2-Digit Numbers • Solve Multiplication Word Problems Multistep Word Problems <ul style="list-style-type: none"> • Solve Multistep Word Problems • Represent Multistep Word Problems
Unit 3: Division with Whole Numbers	
3.1 Divide With Remainders	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.2 Relate Three-Digit Multiplication to Division	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.3 Discuss Two-Digit and Four-Digit Quotients	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.4 Digit-by-Digit Method	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.5 Relate Three Methods	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.6 Divide by Any Method	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers

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3.7 Just-Under Quotient Digits	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.8 Estimate to Check Quotients	Place Value <ul style="list-style-type: none"> • Round Whole Numbers Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.9 Make Sense of Remainders	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers
3.10 Mixed Problem Solving	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers Multistep Word Problems <ul style="list-style-type: none"> • Solve Multistep Word Problems
3.11 Focus on Mathematical Practices	Division <ul style="list-style-type: none"> • Divide by 1-Digit Numbers • Solve Division Word Problems
Unit 4: Equations and Word Problems	
4.1 Properties and Algebraic Notation	Multiplication <ul style="list-style-type: none"> • Interpret Multiplication Equations
4.2 Situation and Solution Equations for Addition and Subtraction	Addition and Subtraction <ul style="list-style-type: none"> • Add Whole Numbers • Adding Within 1,000,000 (Game) • Subtract Whole Numbers • Subtracting Within 1,000,000 (Game)
4.3 Situation and Solution Equations for Multiplication and Division	Multiplication <ul style="list-style-type: none"> • Interpret Multiplication Equations

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
4.4 Multiplication Comparisons	Multiplication <ul style="list-style-type: none"> • Interpret Multiplication Equations
4.5 Discuss Comparison Problems	Multiplication <ul style="list-style-type: none"> • Interpret Multiplication Equations
4.6 Graphs and Comparison Problems	Multiplication <ul style="list-style-type: none"> • Interpret Multiplication Equations
4.7 Solve Two-Step Problems	Multistep Word Problems <ul style="list-style-type: none"> • Solve Multistep Word Problems • Represent Multistep Word Problems
4.8 Solve Multistep Problems	Multistep Word Problems <ul style="list-style-type: none"> • Solve Multistep Word Problems • Represent Multistep Word Problems
4.9 Practice with Multistep Problems	Multistep Word Problems <ul style="list-style-type: none"> • Solve Multistep Word Problems • Represent Multistep Word Problems
4.10 Factors and Prime Numbers	Factors and Multiples <ul style="list-style-type: none"> • Factors • Prime and Composite
4.11 Analyze Patterns	Patterns <ul style="list-style-type: none"> • Shape Patterns • Number Patterns
4.12 Focus on Mathematical Practices	Multiplication <ul style="list-style-type: none"> • Interpret Multiplication Equations Patterns <ul style="list-style-type: none"> • Number Patterns Factors and Multiples <ul style="list-style-type: none"> • Prime and Composite

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
Unit 5: Measurement	
5.1 Measure Length	Measurement Problems <ul style="list-style-type: none"> • Units of Measure • Convert From Larger Units to Smaller Units • Solve Measurement Problems by Converting • Solve Measurement Problems (Whole Numbers)
5.2 Metric Measures of Liquid Volume and Mass	Measurement Problems <ul style="list-style-type: none"> • Units of Measure • Solve Measurement Problems (Whole Numbers)
5.3 Units of Time	Measurement Problems <ul style="list-style-type: none"> • Solve Measurement Problems (Whole Numbers) Line Plots <ul style="list-style-type: none"> • Line Plots to Eighths of a Unit • Add and Subtract to Solve Problems with Line Plots
5.4 Customary Measures of Length	Measurement Problems <ul style="list-style-type: none"> • Units of Measure • Convert From Larger Units to Smaller Units • Solve Measurement Problems by Converting • Solve Measurement Problems (Whole Numbers) • Solve Measurement Problems (Fractions)
5.5 Customary Measures of Weight and Liquid Volume	Measurement Problems <ul style="list-style-type: none"> • Units of Measure • Convert From Larger Units to Smaller Units • Solve Measurement Problems by Converting • Solve Measurement Problems (Whole Numbers)
5.6 Perimeter and Area of Rectangles	Perimeter and Area <ul style="list-style-type: none"> • Perimeter of Rectangles • Area of Rectangles

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
5.7 Solve Measurement Problems	Measurement Problems <ul style="list-style-type: none"> • Solve Measurement Problems (Whole Numbers) Perimeter and Area <ul style="list-style-type: none"> • Perimeter of Rectangles • Area of Rectangles
5.8 Focus on Mathematical Practices	Measurement Problems <ul style="list-style-type: none"> • Units of Measure • Convert From Larger Units to Smaller Units • Solve Measurement Problems by Converting • Solve Measurement Problems (Whole Numbers) Perimeter and Area <ul style="list-style-type: none"> • Perimeter of Rectangles • Area of Rectangles
Unit 6: Fraction Concepts and Operations	
6.1 Understand Fractions	Add Fractions and Mixed Numbers <ul style="list-style-type: none"> • Fractions as Sums of Fractions Fraction Multiplication <ul style="list-style-type: none"> • Fractions as Multiples of Unit Fractions
6.2 Fractions That Add to One	Add Fractions and Mixed Numbers <ul style="list-style-type: none"> • Understand Addition of Fractions • Fractions as Sums of Fractions
6.3 Add and Subtract Fractions with Like Denominators	Add Fractions and Mixed Numbers <ul style="list-style-type: none"> • Understand Addition of Fractions • Solve Problems by Adding Fractions Subtract Fractions and Mixed Numbers <ul style="list-style-type: none"> • Understand Subtraction of Fractions • Solve Problems by Subtracting Fractions Measurement Problems <ul style="list-style-type: none"> • Solve Measurement Problems (Fractions)

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
6.4 Mixed Numbers and Fractions Greater Than 1	Add Fractions and Mixed Numbers <ul style="list-style-type: none"> • Understand Addition of Fractions • Fractions as Sums of Fractions • Solve Problems by Adding Fractions Subtract Fractions and Mixed Numbers <ul style="list-style-type: none"> • Understand Subtraction of Fractions • Solve Problems by Subtracting Fractions
6.5 Add and Subtract Mixed Numbers with Like Denominators	Add Fractions and Mixed Numbers <ul style="list-style-type: none"> • Add Mixed Numbers with Like Denominators Subtract Fractions and Mixed Numbers <ul style="list-style-type: none"> • Subtract Fractions with Mixed Numbers with Like Denominators
6.6 Practice with Fractions and Mixed Numbers	Add Fractions and Mixed Numbers <ul style="list-style-type: none"> • Understand Addition of Fractions • Fractions as Sums of Fractions • Add Mixed Numbers with Like Denominators Subtract Fractions and Mixed Numbers <ul style="list-style-type: none"> • Understand Subtraction of Fractions • Subtract Fractions with Mixed Numbers with Like Denominators
6.7 Multiply a Fraction by a Whole Number	Fraction Multiplication <ul style="list-style-type: none"> • Multiply Fractions by Whole Numbers
6.8 Practice Multiplying a Fraction by a Whole Number	Fraction Multiplication <ul style="list-style-type: none"> • Multiply Fractions by Whole Numbers

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
6.9 Mixed Practice	<p>Add Fractions and Mixed Numbers</p> <ul style="list-style-type: none"> • Fractions as Sums of Fractions • Add Mixed Numbers with Like Denominators • Add Fractions with Like Denominators • Solve Problems by Adding Fractions <p>Subtract Fractions and Mixed Numbers</p> <ul style="list-style-type: none"> • Subtract Fractions with Like Denominators • Subtract Mixed Numbers with Like Denominators • Solve Problems by Subtracting Fractions <p>Fraction Multiplication</p> <ul style="list-style-type: none"> • Fractions as Multiples of Unit Fractions • Multiply Fractions by Whole Numbers • Solve Problems by Multiplying a Fraction by a Whole Number
6.10 Focus on Mathematical Practices	<p>Add Fractions and Mixed Numbers</p> <ul style="list-style-type: none"> • Understand Addition of Fractions • Fractions as Sums of Fractions • Add Mixed Numbers with Like Denominators • Add Fractions with Like Denominators • Solve Problems by Adding Fractions <p>Subtract Fractions and Mixed Numbers</p> <ul style="list-style-type: none"> • Understand Subtraction of Fractions • Subtract Fractions with Like Denominators • Subtract Mixed Numbers with Like Denominators • Solve Problems by Subtracting Fractions <p>Fraction Multiplication</p> <ul style="list-style-type: none"> • Fractions as Multiples of Unit Fractions • Multiply Fractions by Whole Numbers • Solve Problems by Multiplying a Fraction by a Whole Number
Unit 7: Fractions and Decimals	
7.1 Compare Fractions	<p>Equivalent Fractions and Ordering</p> <ul style="list-style-type: none"> • Compare Fractions

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7.2 Fractions on the Number Line	Equivalent Fractions and Ordering <ul style="list-style-type: none"> • Compare Fractions
7.3 Fractions of Different-Size Wholes	Equivalent Fractions and Ordering <ul style="list-style-type: none"> • Compare Fractions
7.4 Equivalent Fractions Using Multiplication	Equivalent Fractions and Ordering <ul style="list-style-type: none"> • Equivalent Fractions • Extend Understanding of Equivalent Fractions
7.5 Equivalent Fractions Using Division	Equivalent Fractions and Ordering <ul style="list-style-type: none"> • Equivalent Fractions • Extend Understanding of Equivalent Fractions
7.6 Compare Fractions with Unlike Denominators	Equivalent Fractions and Ordering <ul style="list-style-type: none"> • Compare Fractions
7.7 Fractions and Line Plots	Line Plots <ul style="list-style-type: none"> • Line Plots to Eighths of a Unit • Add and Subtract to Solve Problems with Line Plots
7.8 Relate Fractions and Decimals	Fractions and Decimals <ul style="list-style-type: none"> • Rename Fractions as Decimals
7.9 Explore Decimal Numbers	Fractions and Decimals <ul style="list-style-type: none"> • Rename Fractions as Decimals
7.10 Compare Decimals to Hundredths	Fractions and Decimals <ul style="list-style-type: none"> • Rename Fractions as Decimals Compare Decimals <ul style="list-style-type: none"> • Compare Decimals to Hundredths • Compare Decimals to Tenths

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
7.11 Decimals Greater Than 1	Fractions and Decimals <ul style="list-style-type: none"> • Rename Fractions as Decimals
7.12 Compare Decimals Greater Than 1	Compare Decimals <ul style="list-style-type: none"> • Compare Decimals to Hundredths • Compare Decimals to Tenths
7.13 Focus on Mathematical Practices	Equivalent Fractions and Ordering <ul style="list-style-type: none"> • Equivalent Fractions • Extend Understanding of Equivalent Fractions • Compare Fractions Compare Decimals <ul style="list-style-type: none"> • Compare Decimals to Hundredths • Compare Decimals to Tenths
Unit 8: Geometry	
8.1 Points, Rays, and Angles	Lines and Angles <ul style="list-style-type: none"> • Points, Lines, Line Segments, and Rays • Types of Angles
8.2 Measuring Angles	Angle Measure <ul style="list-style-type: none"> • Define Angles • Angles and Degrees Lines and Angles <ul style="list-style-type: none"> • Types of Angles
8.3 Circles and Angles	Angle Measure <ul style="list-style-type: none"> • Define Angles • Draw and Measure Angles • Decompose Angles

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Math Expressions, Grade 4 Lessons	Waggle, Grade 4 Goals and Skills
8.4 Name Triangles	Two-Dimensional Figures <ul style="list-style-type: none"> • Classify Figures Based on Lines • Classify Figures Based on Angles • Right Triangles
8.5 Compose and Decompose Angles	Lines and Angles <ul style="list-style-type: none"> • Types of Angles Angle Measure <ul style="list-style-type: none"> • Draw and Measure Angles • Decompose Angles
8.6 Real World Problems	Angle Measure <ul style="list-style-type: none"> • Decompose Angles • Find Unknown Angles
8.7 Parallel and Perpendicular Lines and Line Segments	Lines and Angles <ul style="list-style-type: none"> • Parallel and Perpendicular Lines
8.8 Classify Quadrilaterals	Lines and Angles <ul style="list-style-type: none"> • Identify Parts of Two-Dimensional Figures Two-Dimensional Figures <ul style="list-style-type: none"> • Classify Figures Based on Lines • Classify Figures Based on Angles
8.9 Decompose Quadrilaterals and Triangles	Lines and Angles <ul style="list-style-type: none"> • Points, Lines, Line Segments, and Rays • Identify Parts of Two-Dimensional Figures • Types of Angles Two-Dimensional Figures <ul style="list-style-type: none"> • Classify Figures Based on Lines • Classify Figures Based on Angles

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8.10 Classify Polygons	<p>Lines and Angles</p> <ul style="list-style-type: none"> • Points, Lines, Line Segments, and Rays • Identify Parts of Two-Dimensional Figures • Types of Angles <p>Two-Dimensional Figures</p> <ul style="list-style-type: none"> • Classify Figures Based on Lines • Classify Figures Based on Angles
8.11 Line Symmetry	<p>Two-Dimensional Figures</p> <ul style="list-style-type: none"> • Lines of Symmetry
8.12 Focus on Mathematical Practices	<p>Patterns</p> <ul style="list-style-type: none"> • Shape Patterns <p>Lines and Angles</p> <ul style="list-style-type: none"> • Points, Lines, Line Segments, and Rays • Identify Parts of Two-Dimensional Figures • Types of Angles <p>Two-Dimensional Figures</p> <ul style="list-style-type: none"> • Classify Figures Based on Lines • Classify Figures Based on Angles

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
Unit 1: Addition and Subtraction with Fractions	
1.1 Introduce the MathBoard	Solve Problems by Adding and Subtracting Fractions <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers
1.2 Explain Equivalent Fractions	This skill is taught in <i>Waggle</i> Grade 4.
1.3 Equivalent Fractions and Multipliers	This skill is taught in <i>Waggle</i> Grade 4.
1.4 Strategies for Comparing Fractions	This skill is taught in <i>Waggle</i> Grade 4.
1.5 Fractions Greater Than One	This skill is taught in <i>Waggle</i> Grade 4.
1.6 Add and Subtract Like Mixed Numbers	Solve Problems by Adding and Subtracting Fractions <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers
1.7 Add Unlike Fractions	Add and Subtract Fractions <ul style="list-style-type: none"> • Add Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators Solve Problems by Adding and Subtracting Fractions <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
1.8 Subtract Unlike Fractions	<p>Add and Subtract Fractions</p> <ul style="list-style-type: none"> • Subtract Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Subtracting Fractions and Mixed Numbers
1.9 Solve with Unlike Mixed Numbers	<p>Add and Subtract Fractions</p> <ul style="list-style-type: none"> • Add Mixed Numbers with Unlike Denominators • Subtract Mixed Numbers with Unlike Denominators <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers
1.10 Practice with Unlike Mixed Numbers	<p>Add and Subtract Fractions</p> <ul style="list-style-type: none"> • Add Mixed Numbers with Unlike Denominators • Subtract Mixed Numbers with Unlike Denominators <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers
1.11 Reasonable Answers	<p>Add and Subtract Fractions</p> <ul style="list-style-type: none"> • Add Fractions with Unlike Denominators • Subtract Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators • Add Mixed Numbers with Unlike Denominators • Subtract Mixed Numbers with Unlike Denominators <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers • Reasonable Answers with Fractions

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
1.12 Real World Problems	Solve Problems by Adding and Subtracting Fractions <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers
1.13 Focus on Mathematical Practices	Add and Subtract Fractions <ul style="list-style-type: none"> • Add Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators • Add Mixed Numbers with Unlike Denominators Solve Problems by Adding and Subtracting Fractions <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers
Unit 2: Addition and Subtraction With Decimals	
2.1 Decimals as Equal Divisions	Decimals to Thousandths <ul style="list-style-type: none"> • Read and Write Decimals to Thousandths
2.2 Thousands to Thousandths	Place Value <ul style="list-style-type: none"> • Place Value Concepts Decimals to Thousandths <ul style="list-style-type: none"> • Read and Write Decimals to Thousandths
2.3 Equate and Compare Thousandths	Place Value <ul style="list-style-type: none"> • Place Value Concepts Decimals to Thousandths <ul style="list-style-type: none"> • Read and Write Decimals to Thousandths • Compare Decimals
2.4 Adding and Subtracting Decimals	Decimal Operations <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths
2.5 Add Whole Numbers and Decimals	Decimal Operations <ul style="list-style-type: none"> • Add Decimals to Hundredths

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2.6 Subtract Whole and Decimal Numbers	Decimal Operations <ul style="list-style-type: none"> • Subtract Decimals to Hundredths
2.7 Properties and Strategies	Decimal Operations <ul style="list-style-type: none"> • Add Decimals to Hundredths
2.8 Round and Estimate with Decimals	Decimals to Thousandths <ul style="list-style-type: none"> • Round Decimals
2.9 Graph with Decimal Numbers	Decimals to Thousandths <ul style="list-style-type: none"> • Compare Decimals • Round Decimals
2.10 Focus on Mathematical Practices	Decimal Operations <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths
Unit 3: Multiplication and Division with Fractions	
3.1 Basic Multiplication Concepts	Multiply with Fractions <ul style="list-style-type: none"> • Multiply a Fraction by a Whole Number • Solve Problems by Multiplying Fractions and Mixed Numbers Multiplication as Scaling <ul style="list-style-type: none"> • Explain Multiplication by a Fraction
3.2 Multiplication with Non-Unit Fractions	Multiply with Fractions <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers
3.3 Multiplication with Fractional Solutions	Multiply with Fractions <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers

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3.4 Multiply a Fraction by a Fraction	Multiply with Fractions <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers
3.5 Multiplication Strategies	Multiply with Fractions <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers
3.6 Multiply Mixed Numbers	Multiply with Fractions <ul style="list-style-type: none"> • Area of Rectangles with Fractional Side Lengths • Solve Problems by Multiplying Fractions and Mixed Numbers Multiplication as Scaling <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors • Explain Multiplication by a Fraction
3.7 Relate Fraction Operations	Add and Subtract Fractions <ul style="list-style-type: none"> • Add Fractions with Unlike Denominators • Subtract Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators • Add Mixed Numbers with Unlike Denominators • Subtract Mixed Numbers with Unlike Denominators Solve Problems by Adding and Subtracting Fractions <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers Multiply with Fractions <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers Multiplication as Scaling <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors • Explain Multiplication by a Fraction

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
3.8 Solve Real-World Problems	<p>Add and Subtract Fractions</p> <ul style="list-style-type: none"> • Add Fractions with Unlike Denominators • Subtract Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators • Add Mixed Numbers with Unlike Denominators • Subtract Mixed Numbers with Unlike Denominators <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Multiplication as Scaling</p> <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors
3.9 Make Generalizations	<p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Multiplication as Scaling</p> <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors • Explain Multiplication by a Fraction
3.10 When Dividing Is Also Multiplying	<p>Fractions and Division</p> <ul style="list-style-type: none"> • Interpret Fractions as Division • Fractions as Answers to Division Problems <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Divide a Unit Fraction by a Whole Number • Divide a Whole Number by a Unit Fraction • Solve Problems by Dividing Unit Fractions and Whole Numbers

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
3.11 Solve Division Problems	<p>Fractions and Division</p> <ul style="list-style-type: none"> • Interpret Fractions as Division • Fractions as Answers to Division Problems <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Divide a Unit Fraction by a Whole Number • Divide a Whole Number by a Unit Fraction • Solve Problems by Dividing Unit Fractions and Whole Numbers
3.12 Distinguish Multiplication from Division	<p>Multiplication as Scaling</p> <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors • Explain Multiplication by a Fraction <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Divide a Unit Fraction by a Whole Number • Divide a Whole Number by a Unit Fraction • Solve Problems by Dividing Unit Fractions and Whole Numbers

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
3.13 Review Operations with Fractions	<p>Add and Subtract Fractions</p> <ul style="list-style-type: none"> • Add Fractions with Unlike Denominators • Subtract Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators • Add Mixed Numbers with Unlike Denominators • Subtract Mixed Numbers with Unlike Denominators <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers <p>Fractions and Division</p> <ul style="list-style-type: none"> • Interpret Fractions as Division • Fractions as Answers to Division Problems <p>Multiplication as Scaling</p> <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Multiply a Fraction by a Fraction • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Divide a Unit Fraction by a Whole Number • Divide a Whole Number by a Unit Fraction • Solve Problems by Dividing Unit Fractions and Whole Numbers
3.14 Focus on Mathematical Practices	<p>Fractions and Division</p> <ul style="list-style-type: none"> • Interpret Fractions as Division • Fractions as Answers to Division Problems <p>Multiplication as Scaling</p> <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Dividing Unit Fractions and Whole Numbers

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Unit 4: Multiplication with Whole Numbers and Decimals	
4.1 Shift Patterns in Multiplication	Place Value <ul style="list-style-type: none"> • Place Value Concepts • Powers of 10 • Multiply Whole Numbers by Powers of 10 Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths
4.2 Patterns with Fives and Zeros	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Multiply Whole Numbers
4.3 Sharing Methods for Multiplication	Place Value <ul style="list-style-type: none"> • Place Value Concepts Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Multiply Whole Numbers • Multiplying Within 1,000,000 (Game)
4.4 Multiply Two-Digit Numbers	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Multiply Whole Numbers • Multiplying Within 1,000,000 (Game)
4.5 Practice Multiplication	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Multiply Whole Numbers • Multiplying Within 1,000,000 (Game)
4.6 Multiply Decimals by Whole Numbers	Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths
4.7 Multiply by Decimals	Place Value <ul style="list-style-type: none"> • Place Value Concepts Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
4.8 Multiply with Decimals Greater Than 1	Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths
4.9 Compare Shift Patterns	Place Value <ul style="list-style-type: none"> • Place Value Concepts Decimal Operations <ul style="list-style-type: none"> • Multiply and Divide Decimals by Powers of 10 • Multiply Decimals to Hundredths
4.10 Estimate Products	Decimals to Thousandths <ul style="list-style-type: none"> • Round Decimals Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths
4.11 Multiplication Practice	Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths
4.12 Focus on Mathematical Practices	Decimals to Thousandths <ul style="list-style-type: none"> • Compare Decimals Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths
Unit 5: Division With Whole Numbers and Decimals	
5.1 Divide Whole Numbers by One Digit	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Divide by 2-Digit Numbers
5.2 Explore Dividing by Two Digit Whole Numbers	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Divide by 2-Digit Numbers
5.3 Too Large, Too Small, or Just Right?	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Divide by 2-Digit Numbers
5.4 Interpret Remainders	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Divide by 2-Digit Numbers

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
5.5 Division Practice	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Divide by 2-Digit Numbers
5.6 Divide Decimal Numbers by Whole Numbers	Decimal Operations <ul style="list-style-type: none"> • Multiply and Divide Decimals by Powers of 10 • Divide Decimals to Hundredths
5.7 Divide Whole Numbers by Decimal Numbers	Decimal Operations <ul style="list-style-type: none"> • Multiply and Divide Decimals by Powers of 10 • Divide Decimals to Hundredths
5.8 Divide a Decimal Number by a Decimal Number	Decimal Operations <ul style="list-style-type: none"> • Divide Decimals to Hundredths
5.9 Division Practice	Multiply and Divide Whole Numbers <ul style="list-style-type: none"> • Divide by 2-Digit Numbers Decimal Operations <ul style="list-style-type: none"> • Divide Decimals to Hundredths
5.10 Distinguish Between Multiplication and Division	Decimals to Thousandths <ul style="list-style-type: none"> • Compare Decimals Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths • Divide Decimals to Hundredths Multiplication as Scaling <ul style="list-style-type: none"> • Compare Products to the Sized of Factors
5.11 Focus on Mathematical Practices	Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals to Hundredths • Divide Decimals to Hundredths

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
Unit 6: Operations and Word Problems	
6.1 Situation and Solution Equations for Addition and Subtraction	<p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers <p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths
6.2 Situation and Solution Equations for Multiplication and Division	<p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Whole Numbers • Solve Multiplication Word Problems • Divide by 2-Digit Numbers <p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths • Multiply Decimals to Hundredths • Divide Decimals to Hundredths <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Area of Rectangles with Fractional Side Lengths • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Dividing Unit Fractions and Whole Numbers
6.3 Write Word Problems	<p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Multiply a Fractions by a Whole Number <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Divide a Unit Fraction by a Whole Number • Divide a Whole Number by a Unit Fraction

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
6.4 Determine Reasonable Answers	<p>Decimals to Thousandths</p> <ul style="list-style-type: none"> • Round Decimals <p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide by 2-Digit Numbers <p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths • Multiply Decimals to Hundredths • Divide Decimals to Hundredths <p>Add and Subtract Fractions</p> <ul style="list-style-type: none"> • Add Fractions with Unlike Denominators • Subtract Fractions with Unlike Denominators • Add and Subtract Fractions with Unlike Denominators • Add Mixed Numbers with Unlike Denominators • Subtract Mixed Numbers with Unlike Denominators <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers
6.5 Language of Comparison Problems	<p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Whole Numbers • Solve Multiplication Word Problems • Multiplying Within 1,000,000 (Game)

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
6.6 Multiplicative Comparison Problems	<p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Whole Numbers • Solve Multiplication Word Problems • Multiplying Within 1,000,000 (Game) • Divide by 2-Digit Numbers <p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths • Multiply Decimals to Hundredths • Divide Decimals to Hundredths <p>Multiplication as Scaling</p> <ul style="list-style-type: none"> • Compare Products to the Sizes of Factors • Explain Multiplication by a Fraction <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Dividing Unit Fractions and Whole Numbers
6.7 Types of Comparison Problems	<p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Whole Numbers • Solve Multiplication Word Problems • Multiplying Within 1,000,000 (Game) • Divide by 2-Digit Numbers <p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths • Multiply Decimals to Hundredths • Divide Decimals to Hundredths <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
6.8 Equations and Parentheses	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions <p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Whole Numbers • Solve Multiplication Word Problems <p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths • Multiply Decimals to Hundredths • Divide Decimals to Hundredths <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Dividing Unit Fractions and Whole Numbers
6.9 Multi-step Word Problems	<p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Multiply Whole Numbers • Solve Multiplication Word Problems <p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths • Multiply Decimals to Hundredths • Divide Decimals to Hundredths <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Multiplying Fractions and Mixed Numbers

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
6.10 Practice Problem Solving	<p>Multiply and Divide Whole Numbers</p> <ul style="list-style-type: none"> • Divide by 2-Digit Numbers <p>Solve Problems by Adding and Subtracting Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Adding Fractions and Mixed Numbers • Solve Problems by Subtracting Fractions and Mixed Numbers <p>Multiply with Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Multiplying Fractions and Mixed Numbers <p>Divide with Unit Fractions</p> <ul style="list-style-type: none"> • Solve Problems by Dividing Unit Fractions and Whole Numbers
6.11 Focus on Mathematical Practices	<p>Decimal Operations</p> <ul style="list-style-type: none"> • Add Decimals to Hundredths • Subtract Decimals to Hundredths • Multiply Decimals to Hundredths • Divide Decimals to Hundredths <p>Fractions and Division</p> <ul style="list-style-type: none"> • Interpret Fractions as Division • Fractions as Answers to Division Problems
Unit 7: Algebra, Patterns, and Coordinate Graphs	
7.1 Read and Write Expressions	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions • Write and Interpret Numerical Expressions
7.2 Simplify Expressions	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions
7.3 Evaluate Expressions	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions • Write and Interpret Numerical Expressions

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
7.4 Patterns and Relationships	Numerical Expressions <ul style="list-style-type: none"> • Evaluate Numerical Expressions • Write and Interpret Numerical Expressions Patterns and Relationships <ul style="list-style-type: none"> • Relationships Between Corresponding Terms • Generate Numerical Patterns by Using Given Rules • Graph Patterns
7.5 The Coordinate Plane	The Coordinate Plane <ul style="list-style-type: none"> • Understand the Coordinate Plane
7.6 Graph Ordered Pairs	Patterns and Relationships <ul style="list-style-type: none"> • Graph Patterns The Coordinate Plane <ul style="list-style-type: none"> • Understand the Coordinate Plane • Graph Points in the First Quadrant
7.7 Focus on Mathematical Practices	Numerical Expressions <ul style="list-style-type: none"> • Evaluate Numerical Expressions The Coordinate Plane <ul style="list-style-type: none"> • Understand the Coordinate Plane • Graph Points in the First Quadrant
Unit 8: Measurement and Geometry	
8.1 Metric Units of Length	Measurement Problems <ul style="list-style-type: none"> • Convert Measurement Units Within a System
8.2 Customary Units of Length	Measurement Problems <ul style="list-style-type: none"> • Convert Measurement Units Within a System
8.3 Perimeter and Area of Rectangles	Multiply with Fractions <ul style="list-style-type: none"> • Area of Rectangles with Fractional Side Lengths

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
8.4 Cubic Units and Volume	<p>Understand Volume</p> <ul style="list-style-type: none"> • Understand Cubic Units <p>Volume of Rectangular Prisms</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Formulas • Volume of Rectangular Prisms with Unit Cubes <p>Understand Volume</p> <ul style="list-style-type: none"> • Measure Volume by Counting Unit Cubes
8.5 Visualize Volume	<p>Understand Volume</p> <ul style="list-style-type: none"> • Understand Cubic Units • Understand Volume
8.6 Introduce Volume Formulas	<p>Understand Volume</p> <ul style="list-style-type: none"> • Measure Volume by Counting Unit Cubes <p>Volume of Rectangular Prisms</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Formulas • Volume of Rectangular Prisms with Unit Cubes
8.7 Relate Length, Area, and Volume	<p>Volume of Rectangular Prisms</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Formulas
8.8 Volume of Composite Solid Figures	<p>Volume of Rectangular Prisms</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Formulas • Volume of Figures Made of Rectangular Prisms
8.9 Metric Units of Liquid Volume	<p>Measurement Problems</p> <ul style="list-style-type: none"> • Convert Measurement Units Within a System • Solve Multistep Measurement Problems
8.10 Metric Units of Mass	<p>Measurement Problems</p> <ul style="list-style-type: none"> • Convert Measurement Units Within a System • Solve Multistep Measurement Problems

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Math Expressions, Grade 5 Lessons	Waggle, Grade 5 Goals and Skills
8.11 Customary Units of Liquid Volume	Measurement Problems <ul style="list-style-type: none"> • Convert Measurement Units Within a System • Solve Multistep Measurement Problems
8.12 Customary Units of Weight	Measurement Problems <ul style="list-style-type: none"> • Convert Measurement Units Within a System • Solve Multistep Measurement Problems
8.13 Read and Make Line Plots	Line Plots <ul style="list-style-type: none"> • Line Plots with Fractions of a Unit • Solve Problems with Line Plots
8.14 Attributes of Quadrilaterals	Classify Shapes <ul style="list-style-type: none"> • Attributes of Shapes • Classify Shapes Based on Properties
8.15 Attributes of Triangles	Classify Shapes <ul style="list-style-type: none"> • Attributes of Shapes • Classify Shapes Based on Properties
8.16 Attributes of Two-Dimensional Shapes	Classify Shapes <ul style="list-style-type: none"> • Attributes of Shapes • Classify Shapes Based on Properties
8.17 Focus on Mathematical Practices	Understand Volume <ul style="list-style-type: none"> • Understand Cubic Units • Understand Volume Volume of Rectangular Prisms <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Formulas

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
Unit 1: Rates, Ratios, and Proportions	
1.1 Factor Puzzles and the Multiplication Table	Tables of Equivalent Ratios <ul style="list-style-type: none">• Complete Ratio Tables
1.2 Solving Factor Puzzles	Tables of Equivalent Ratios <ul style="list-style-type: none">• Complete Ratio Tables
1.3 Rate Situations and Rate Tables	Ratios and Rates <ul style="list-style-type: none">• Understand Unit Rates• Solve Unit Rate Problems Tables of Equivalent Ratios <ul style="list-style-type: none">• Complete Ratio Tables
1.4 Rate Situations and Unit Rate Language	Ratios and Rates <ul style="list-style-type: none">• Understand Unit Rates• Solve Unit Rate Problems Tables of Equivalent Ratios <ul style="list-style-type: none">• Complete Ratio Tables
1.5 Unit Rates, Products, and Rate Tables	Ratios and Rates <ul style="list-style-type: none">• Understand Unit Rates• Solve Unit Rate Problems Tables of Equivalent Ratios <ul style="list-style-type: none">• Complete Ratio Tables

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
1.6 Unit Pricing	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Rates • Solve Unit Rate Problems Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.7 Constant Speed	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios • Understand Unit Rates • Solve Unit Rate Problems Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.8 Ratio as Linked Rates	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios • Understand Unit Rates Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.9 Finding Linked Values in Ratio Tables	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.10 Seeing Proportions in Ratio Tables	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
1.11 Identify and Solve Proportion Situations	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.12 Solve Numeric Proportion Problems	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.13 Basic Ratio Solution Strategies	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios • Understand Unit Rates Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.14 Write and Solve Proportion Problems	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables
1.15 Focus on Mathematical Practices	Ratios and Rates <ul style="list-style-type: none"> • Understand Unit Ratios • Understand Unit Rates Tables of Equivalent Ratios <ul style="list-style-type: none"> • Equivalent Ratios on the Coordinate Plane • Complete Ratio Tables

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
Unit 2: Area of Polygons	
2.1 Units of Area	Area <ul style="list-style-type: none"> • Area of Polygons
2.2 Area of Any Right Triangle	Area <ul style="list-style-type: none"> • Area of Triangles
2.3 Area of Any Parallelogram	Area <ul style="list-style-type: none"> • Area of Parallelograms and Trapezoids
2.4 Area of Any Triangle	Area <ul style="list-style-type: none"> • Area of Triangles
2.5 Select the Needed Measurements	Area <ul style="list-style-type: none"> • Area of Triangles • Area of Parallelograms and Trapezoids
2.6 Area of Any Trapezoid	Area <ul style="list-style-type: none"> • Area of Parallelograms and Trapezoids
2.7 Area of a Complex Figure	Area <ul style="list-style-type: none"> • Area of Polygons
2.8 Area of Any Regular Polygon	Area <ul style="list-style-type: none"> • Area of Polygons
2.9 Graph Polygons in the Coordinate Plane	Area <ul style="list-style-type: none"> • Area of Polygons
2.10 Focus on Mathematical Practices	Area <ul style="list-style-type: none"> • Area of Polygons

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
Unit 3: Operations with Whole Numbers, Fractions, and Decimals	
3.1 Place Value and Whole Number Division	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Whole Numbers • Dividing Within 100,000 (Game)
3.2 Estimated Multipliers in Division	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Whole Numbers • Dividing Within 100,000 (Game)
3.3 Multiplying by a Decimal	Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals • Multiplying Decimals (Game)
3.4 Decimal Divisors	Decimal Operations <ul style="list-style-type: none"> • Divide Decimals • Dividing Decimals (Game)
3.5 Multiplication or Division	Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals • Multiplying Decimals (Game) • Divide Decimals • Dividing Decimals (Game)
3.6 Comparing, Adding, and Subtracting with the Same Unit	Decimal Operations <ul style="list-style-type: none"> • Add Decimals • Adding Decimals (Game) • Subtract Decimals • Subtracting Decimals (Game)
3.7 Equivalent Fractions or Decimals	
3.8 Finding a Common Unit Fraction	

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
3.9 Mixed Problem Solving	Decimal Operations <ul style="list-style-type: none"> • Add Decimals • Adding Decimals (Game) • Subtract Decimals • Subtracting Decimals (Game) GCF and LCM <ul style="list-style-type: none"> • Greatest Common Factor • Least Common Multiple
3.10 Multiplying with Fractions	This skill is taught in <i>Waggle</i> , Grade 5.
3.11 Dividing with Fractions and Whole Numbers	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Whole Numbers by Fractions
3.12 Is It Multiplying or Dividing?	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Whole Numbers by Fractions
3.13 Dividing Numerators and Denominators	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Fractions
3.14 Dividing by Unsimplifying	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Fractions
3.15 Dividing by Multiplying by the Reciprocal	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Fractions
3.16 Is It Multiplying or Dividing?	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Fractions

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
3.17 Mixed Practice with Decimals and Fractions	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Fractions Decimal Operations <ul style="list-style-type: none"> • Multiply Decimals • Multiplying Decimals (Game) • Divide Decimals • Dividing Decimals (Game)
3.18 Focus on Mathematical Practices	Divide Whole Numbers and Fractions <ul style="list-style-type: none"> • Divide Fractions Decimal Operations <ul style="list-style-type: none"> • Add Decimals • Adding Decimals (Game) • Subtract Decimals • Subtracting Decimals (Game) • Multiply Decimals • Multiplying Decimals (Game) • Divide Decimals • Dividing Decimals (Game)
Unit 4: Surface Area of Prisms and Pyramids	
4.1 Nets and Surface Area for Rectangular Prisms	Volume and Surface Area <ul style="list-style-type: none"> • Nets of Solid Figures • Use Nets to Find Surface Area
4.2 Nets and Surface Area for Nonrectangular Prisms	Volume and Surface Area <ul style="list-style-type: none"> • Nets of Solid Figures • Use Nets to Find Surface Area
4.3 Surface Area of Prisms	Volume and Surface Area <ul style="list-style-type: none"> • Use Nets to Find Surface Area
4.4 Nets for Pyramids	Volume and Surface Area <ul style="list-style-type: none"> • Nets of Solid Figures

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
4.5 Surface Area of Pyramids	Volume and Surface Area <ul style="list-style-type: none"> • Use Nets to Find Surface Area
4.6 Focus on Mathematical Practices	Volume and Surface Area <ul style="list-style-type: none"> • Nets of Solid Figures • Use Nets to Find Surface Area
Unit 5: Expressions and Equations	
5.1 Expressions and Order of Operations	Algebraic Expressions <ul style="list-style-type: none"> • Parts of Expressions Evaluate Algebraic Expressions <ul style="list-style-type: none"> • Evaluate Formulas • Evaluate Algebraic Expressions
5.2 Expressions with Exponents	Numerical Expressions <ul style="list-style-type: none"> • Evaluate Numerical Expressions with Exponents • Repeated Multiplication and Exponents Algebraic Expressions <ul style="list-style-type: none"> • Translate Verbal Expressions into Algebraic Expressions • Parts of Expressions Evaluate Algebraic Expressions <ul style="list-style-type: none"> • Evaluate Formulas • Evaluate Algebraic Expressions
5.3 Interpreting and Analyzing Expressions	Numerical Expressions <ul style="list-style-type: none"> • Evaluate Numerical Expressions with Exponents • Repeated Multiplication and Exponents Algebraic Expressions <ul style="list-style-type: none"> • Translate Verbal Expressions into Algebraic Expressions • Parts of Expressions

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
5.4 Modeling and Simplifying Expressions	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions with Exponents • Repeated Multiplication and Exponents <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Translate Verbal Expressions into Algebraic Expressions • Parts of Expressions <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Formulas • Evaluate Algebraic Expressions <p>Equivalent Expressions</p> <ul style="list-style-type: none"> • Decide if Expressions are Equivalent
5.5 Expressions for Area and Surface Area	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions with Exponents • Repeated Multiplication and Exponents <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Parts of Expressions <p>Equivalent Expressions</p> <ul style="list-style-type: none"> • Decide if Expressions are Equivalent <p>Volume and Surface Area</p> <ul style="list-style-type: none"> • Use Nets to Find Surface Area
5.6 Equivalent Expressions	<p>Equivalent Expressions</p> <ul style="list-style-type: none"> • Decide if Expressions are Equivalent
5.7 The Commutative and Associative Properties	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions with Exponents <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Parts of Expressions <p>Equivalent Expressions</p> <ul style="list-style-type: none"> • Generate Equivalent Expressions • Decide if Expressions Are Equivalent

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
5.8 The Distributive Property	<p>Numerical Expressions</p> <ul style="list-style-type: none"> • Evaluate Numerical Expressions with Exponents <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Parts of Expressions <p>Equivalent Expressions</p> <ul style="list-style-type: none"> • Generate Equivalent Expressions Using the Distributive Property
5.9 Practice with Expressions	<p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Translate Verbal Expressions Into Algebraic Expressions • Write Expressions Using Variables <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Algebraic Expressions <p>Equivalent Expressions</p> <ul style="list-style-type: none"> • Generate Equivalent Expressions • Generate Equivalent Expressions Using the Distributive Property • Decide if Expressions Are Equivalent
5.10 Relating Two Quantities	<p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Write Expressions Using Variables <p>Dependent and Independent Variables</p> <ul style="list-style-type: none"> • Equations Relating Variables
5.11 Motion at a Constant Speed	<p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Write Expressions Using Variables <p>Dependent and Independent Variables</p> <ul style="list-style-type: none"> • Equations Relating Variables • Identify Dependent and Independent Variables • Relationship Between Independent and Dependent Variables
5.12 Relating Equations, Tables, and Graphs	<p>Dependent and Independent Variables</p> <ul style="list-style-type: none"> • Equations Relating Variables • Identify Dependent and Independent Variables • Relationship Between Independent and Dependent Variables

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
5.13 Writing Equations	<p>Dependent and Independent Variables</p> <ul style="list-style-type: none"> • Equations Relating Variables • Identify Dependent and Independent Variables • Relationship Between Independent and Dependent Variables
5.14 Inequalities	<p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Translate Verbal Expressions Into Algebraic Expressions • Write Expressions Using Variables <p>Inequalities</p> <ul style="list-style-type: none"> • Represent Inequalities on a Number Line • Write Simple Inequalities
5.15 Solutions of Equations and Inequalities	<p>Equations</p> <ul style="list-style-type: none"> • Decide if a Number Makes an Equation True <p>Inequalities</p> <ul style="list-style-type: none"> • Decide if a Number Makes an Inequality True • Represent Inequalities on a Number Line • Write Simple Inequalities
5.16 Addition and Subtraction Equations	<p>Equations</p> <ul style="list-style-type: none"> • Decide if a Number Makes an Equation True • Solve One-Step Addition Equations <p>Inequalities</p> <ul style="list-style-type: none"> • Decide if a Number Makes an Inequality True • Write Simple Inequalities <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Write Expressions Using Variables

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
5.17 Multiplication and Division Equations	<p>Equations</p> <ul style="list-style-type: none"> • Decide if a Number Makes an Equation True • Solve One-Step Multiplication Equations <p>Inequalities</p> <ul style="list-style-type: none"> • Decide if a Number Makes an Inequality True • Write Simple Inequalities <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Write Expressions Using Variables
5.18 Focus on Mathematical Practices	<p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Write Expressions Using Variables <p>Equations</p> <ul style="list-style-type: none"> • Solve One-Step Addition Equations • Solve One-Step Multiplication Equations <p>Dependent and Independent Variables</p> <ul style="list-style-type: none"> • Equations Relating Variables
Unit 6: Geometry and Measurement	
6.1 What Is Volume?	<p>Volume and Surface Area</p> <ul style="list-style-type: none"> • Nets of Solid Figures • Use Nets to Find Surface Area <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Formulas
6.2 Fractional Unit Cubes	<p>Volume and Surface Area</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Fractional Edge Lengths <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Formulas
6.3 Compose Rectangular Prisms with Fractional Edge Lengths	<p>Volume and Surface Area</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Fractional Edge Lengths <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Formulas

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
6.4 Volume of Prisms with Fractional Edge Lengths	<p>Volume and Surface Area</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Fractional Edge Lengths <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Formulas
6.5 Write and Solve Equations about Volume	<p>Volume and Surface Area</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Fractional Edge Lengths • Use Nets to Find Surface Area <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Formulas
6.6 Focus on Mathematical Practices	<p>Volume and Surface Area</p> <ul style="list-style-type: none"> • Volume of Rectangular Prisms with Fractional Edge Lengths • Use Nets to Find Surface Area <p>Evaluate Algebraic Expressions</p> <ul style="list-style-type: none"> • Evaluate Formulas <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Write Expressions Using Variables
Unit 7: Ratios and Rates with Fractions, Decimals, and Percents	
7.1 Comparing Ratios	<p>Ratios and Rates</p> <ul style="list-style-type: none"> • Understand Ratios <p>Tables of Equivalent Ratios</p> <ul style="list-style-type: none"> • Compare Ratios Shown in Tables
7.2 Unit Rates	<p>Ratios and Rates</p> <ul style="list-style-type: none"> • Understand Unit Rates • Solve Unit Rate Problems <p>Algebraic Expressions</p> <ul style="list-style-type: none"> • Write Expressions Using Variables

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
7.3 Ratios, Fractions, and Fraction Notation	Ratios and Rates <ul style="list-style-type: none"> • Understand Rates • Understand Ratios Tables of Equivalent Ratios <ul style="list-style-type: none"> • Complete Ratio Tables
7.4 Understanding Cross-Multiplication	Ratios and Rates <ul style="list-style-type: none"> • Solve Unit Rate Problems
7.5 Describing Ratios with Tape Diagrams	Ratios and Rates <ul style="list-style-type: none"> • Understand Ratios • Solve Unit Rate Problems Tables of Equivalent Ratios <ul style="list-style-type: none"> • Complete Ratio Tables
7.6 Ratios and Multiplicative Comparisons	Ratios and Rates <ul style="list-style-type: none"> • Understand Ratios • Solve Unit Rate Problems
7.7 Solve Ratio and Rate Problems	Ratios and Rates <ul style="list-style-type: none"> • Understand Ratios • Solve Unit Rate Problems Tables of Equivalent Ratios <ul style="list-style-type: none"> • Complete Ratio Tables Algebraic Expressions <ul style="list-style-type: none"> • Write Expressions Using Variables
7.8 The Meaning of Percent	Percent <ul style="list-style-type: none"> • Find a Percent of a Number
7.9 Percent of a Number	Percent <ul style="list-style-type: none"> • Find a Percent of a Number

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
7.10 Percent Calculations	Percent <ul style="list-style-type: none"> • Find a Percent of a Number
7.11 Solve Percent Problems	Percent <ul style="list-style-type: none"> • Find a Percent of a Number
7.12 Convert Units of Length	Ratios and Rates <ul style="list-style-type: none"> • Convert Measurement Units
7.13 Convert Units of Liquid Volume, Mass, and Weight	Ratios and Rates <ul style="list-style-type: none"> • Convert Measurement Units
7.14 Focus on Mathematical Practices	Ratios and Rates <ul style="list-style-type: none"> • Convert Measurement Units
Unit 8: Statistics and Probability	
8.1 Making Sense of Data	Statistical Variability <ul style="list-style-type: none"> • Recognize Statistical Questions Display Data <ul style="list-style-type: none"> • Dot Plots Describe Data <ul style="list-style-type: none"> • Report the Number of Observations
8.2 Dot Plots and Histograms	Statistical Variability <ul style="list-style-type: none"> • Recognize Statistical Questions Display Data <ul style="list-style-type: none"> • Histograms • Dot Plots Describe Data <ul style="list-style-type: none"> • Report the Number of Observations

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
8.3 Making Data Groups Equal	Statistical Variability <ul style="list-style-type: none"> • Center, Spread, and Shape • Measures of Center
8.4 Use the Mean	Statistical Variability <ul style="list-style-type: none"> • Center, Spread, and Shape • Measures of Center Summarize Numerical Data Sets <ul style="list-style-type: none"> • Mean and Median
8.5 The Mean as a Balance Point	Statistical Variability <ul style="list-style-type: none"> • Center, Spread, and Shape • Measures of Center Display Data <ul style="list-style-type: none"> • Dot Plots Summarize Numerical Data Sets <ul style="list-style-type: none"> • Mean and Median
8.6 Find and Use the Median	Statistical Variability <ul style="list-style-type: none"> • Center, Spread, and Shape • Measures of Center Display Data <ul style="list-style-type: none"> • Dot Plots Summarize Numerical Data Sets <ul style="list-style-type: none"> • Mean and Median • Determine Appropriate Measures of Center and Variability
8.7 Variability in Data	Statistical Variability <ul style="list-style-type: none"> • Center, Spread, and Shape • Measures of Variation Display Data <ul style="list-style-type: none"> • Dot Plots Describe Data <ul style="list-style-type: none"> • Range and Interquartile Range

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
8.8 Box Plots	<p>Statistical Variability</p> <ul style="list-style-type: none"> • Center, Spread, and Shape • Measures of Variation <p>Display Data</p> <ul style="list-style-type: none"> • Box Plots <p>Describe Data</p> <ul style="list-style-type: none"> • Range and Interquartile Range <p>Summarize Numerical Data Sets</p> <ul style="list-style-type: none"> • Mean and Median • Determine Appropriate Measures of Center and Variability
8.9 Mean Absolute Deviation	<p>Summarize Numerical Data Sets</p> <ul style="list-style-type: none"> • Mean Absolute Deviation
8.10 Clusters, Peaks, Gaps, and Outliers	<p>Statistical Variability</p> <ul style="list-style-type: none"> • Center, Spread, and Shape <p>Summarize Numerical Data Sets</p> <ul style="list-style-type: none"> • Determine Appropriate Measures of Center and Variability
8.11 Collect, Display, and Interpret Data	<p>Statistical Variability</p> <ul style="list-style-type: none"> • Recognize Statistical Questions • Measures of Center • Measures of Variation <p>Statistical Variability</p> <ul style="list-style-type: none"> • Center, Spread, and Shape <p>Describe Data</p> <ul style="list-style-type: none"> • Report the Number of Observations • Describe the Nature of Collected Data <p>Summarize Numerical Data Sets</p> <ul style="list-style-type: none"> • Range and Interquartile Range • Mean and Median • Mean Absolute Deviation • Determine Appropriate Measures of Center and Variability

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
8.12 Focus on Mathematical Practices	<p>Statistical Variability</p> <ul style="list-style-type: none"> • Recognize Statistical Questions • Center, Spread, and Shape • Measures of Center • Measures of Variation <p>Display Data</p> <ul style="list-style-type: none"> • Dot Plots <p>Statistical Variability</p> <ul style="list-style-type: none"> • Center, Spread, and Shape <p>Describe Data</p> <ul style="list-style-type: none"> • Report the Number of Observations • Describe the Nature of Collected Data <p>Summarize Numerical Data Sets</p> <ul style="list-style-type: none"> • Range and Interquartile Range • Mean and Median • Mean Absolute Deviation • Determine Appropriate Measures of Center and Variability
Unit 9: Rational Numbers and the Coordinate Plane	
9.1 Negative Numbers in the Real World	<p>Positive and Negative Numbers</p> <ul style="list-style-type: none"> • Represent Quantities with Positive and Negative Numbers
9.2 Integers on a Number Line	<p>Positive and Negative Numbers</p> <ul style="list-style-type: none"> • The Opposite of a Number • Rational Numbers on Number Lines

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
9.3 Compare and Order Integers	<p>Positive and Negative Numbers</p> <ul style="list-style-type: none"> • Represent Quantities with Positive and Negative Numbers • The Opposite of a Number • Rational Numbers on Number Lines <p>Compare Numbers</p> <ul style="list-style-type: none"> • Interpret Statements of Inequality • Compare Rational Numbers <p>Absolute Value</p> <ul style="list-style-type: none"> • Absolute Value and Magnitude • Understand Absolute Value • Absolute Value and Statements About Order
9.4 Integers and the Coordinate Plane	<p>The Coordinate Plane</p> <ul style="list-style-type: none"> • Quadrants on the Coordinate Plane • Ordered Pair son the Coordinate Plane <p>Compare Numbers</p> <ul style="list-style-type: none"> • Compare Rational Numbers <p>Using the Coordinate Plane</p> <ul style="list-style-type: none"> • Solve Problems on the Coordinate Plane
9.5 Rational Numbers on a Number Line	<p>Positive and Negative Numbers</p> <ul style="list-style-type: none"> • The Opposite of a Number • Rational Numbers on Number Lines
9.6 Compare and Order Rational Numbers	<p>Positive and Negative Numbers</p> <ul style="list-style-type: none"> • The Opposite of a Number • Rational Numbers on Number Lines <p>Compare Numbers</p> <ul style="list-style-type: none"> • Interpret Statements of Inequality • Compare Rational Numbers

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Math Expressions, Grade 6 Lessons	Waggle, Grade 6 Goals and Skills
9.7 Rational Numbers and the Coordinate Plane	<p>Positive and Negative Numbers</p> <ul style="list-style-type: none"> • Represent Quantities with Positive and Negative Numbers <p>The Coordinate Plane</p> <ul style="list-style-type: none"> • Quadrants on the Coordinate Plane • Reflections of Points on the Coordinate Plane • Ordered Pairs on the Coordinate Plane <p>Absolute Value</p> <ul style="list-style-type: none"> • Absolute Value and Magnitude • Understand Absolute Value <p>Using the Coordinate Plane</p> <ul style="list-style-type: none"> • Solve Problems on the Coordinate Plane
9.8 Focus on Mathematical Practices	<p>Positive and Negative Numbers</p> <ul style="list-style-type: none"> • Represent Quantities with Positive and Negative Numbers <p>The Coordinate Plane</p> <ul style="list-style-type: none"> • Quadrants on the Coordinate Plane • Reflections of Points on the Coordinate Plane • Ordered Pairs on the Coordinate Plane <p>Absolute Value</p> <ul style="list-style-type: none"> • Absolute Value and Magnitude • Understand Absolute Value <p>Using the Coordinate Plane</p> <ul style="list-style-type: none"> • Solve Problems on the Coordinate Plane