

**Camelot Learning
Scope and Sequence
Number Sense**

Time: 40 minute Lessons

Review		<ul style="list-style-type: none"> • Use the Tens Frame to add and subtract numbers • Recognize numbers on a Tens Frame using patterns 	<p style="text-align: center;">Algebra</p> <p style="text-align: center;">Communication</p>	<p>subtraction</p> <ul style="list-style-type: none"> • Develop a sense of whole numbers and represent and use them in flexible ways, including relating, composing, and decomposing numbers (Tens Frame) • Use a variety of methods and tools to compute, including objects, (number lines), mental computation, paper and pencil • Recognize, describe, and extend simple numeric patterns and translate from one representation to another • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 5: Counting On or Counting Back Strategy</p> <p>Lesson 6: Counting On or Counting Back Strategy Review</p>	How can you use the counting on or counting back strategy to learn addition and subtraction facts?	<ul style="list-style-type: none"> • Addition facts practice • Add numbers using the counting on strategy when one of the addends is 1, 2, or 3 • Subtract numbers with subtrahends of 1, 2, or 3 by counting backwards • Explain the steps in the counting on and counting back strategies 	<p style="text-align: center;">Number and Operations (PK – 2)</p> <p style="text-align: center;">Communication</p>	<ul style="list-style-type: none"> • Develop and use strategies for whole-number computations, with a focus on addition and subtraction • Develop fluency with basic number combinations for addition and subtraction • Use a variety of methods and tools to compute, including objects, (number line) mental computation, paper and pencil • Communicate mathematical thinking

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				<p>coherently and clearly</p> <ul style="list-style-type: none"> • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 7: Fact Family Strategy</p> <p>Lesson 8: Fact Family Strategy Review</p>	<p>How can you use the fact family strategy to learn addition and subtraction facts?</p>	<ul style="list-style-type: none"> • Addition facts practice • Describe the relationships between addition and subtraction • Use the number family strategy to solve addition and subtraction facts • Write a set of fact family number sentences that are related 	<p>Number and Operations (PK – 2)</p>	<ul style="list-style-type: none"> • Develop and use strategies for whole-number computations, with a focus on addition and subtraction • Develop fluency with basic number combinations for addition and subtraction • Use a variety of methods and tools to compute, including objects, (number lines), mental computation, paper and pencil • Connect number words and numerals to the quantities they represent, using various physical models and representations • Understand various meanings of addition and subtraction of whole numbers and the relationship between the two operations (fact family)
<p>Lesson 9: Using Ten to Add or Subtract Nine</p> <p>Lesson 10: Using Ten to Add or Subtract Nine</p>	<p>How can you use ten to add or subtract nine from a number?</p>	<ul style="list-style-type: none"> • Addition facts practice • Mentally add 10 and subtract 1 from a number • Mentally subtract 10 and add 1 to a number • Explain the strategy for adding ten and 	<p>Number and Operations (PK – 2)</p>	<ul style="list-style-type: none"> • Develop and use strategies for whole-number computations, with a focus on addition and subtraction • Develop fluency with basic number combinations for addition and subtraction • Use a variety of methods and tools to

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Review		<ul style="list-style-type: none"> subtracting 1 when adding nine to a number • Explain the strategy of subtracting ten and adding 1 when subtracting nine from a number 	Communication	<ul style="list-style-type: none"> compute, including objects, mental computation, paper and pencil • Understand the effect of adding and subtracting whole numbers • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
Lesson 11: Zero Strategy Lesson 12: Zero Strategy Review	How can the zero strategy be useful in learning addition and subtraction facts?	<ul style="list-style-type: none"> • Subtraction facts practice • Use the Identity Property of Addition • Add facts that have an addend of zero • Subtract facts that have a subtrahend of zero • Tournament Time explanation 	Algebra (PK – 2) Number and Operations (PK – 2) Communication	<ul style="list-style-type: none"> • Illustrate general principles and properties of operations, using specific numbers • Develop and use strategies for whole-number computations, with a focus on addition and subtraction • Develop fluency with basic number combinations for addition and subtraction • Use a variety of methods and tools to compute, including objects, (number lines), mental computation, paper and pencil • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
Lesson 13: Understanding Place Value	How can you use your understanding of place value to	<ul style="list-style-type: none"> • Addition facts practice • Recognize numbers written in expanded 	Number and Operations (PK – 2)	<ul style="list-style-type: none"> • Develop fluency with basic number combinations for addition and subtraction

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<p>Lesson 14: Understanding Place Value Review</p>	<p>improve your number sense?</p>	<p>form, standard form, and with words</p> <ul style="list-style-type: none"> • Compare and read numbers to the thousands place 		<ul style="list-style-type: none"> • Use multiple models to develop initial understanding of place value and the base ten number system; represent and compare whole numbers (3 – 5) • Develop a sense of whole numbers and represent and use them in flexible ways, including relating, composing, and decomposing numbers • Connect number words and numerals to the quantities they represent, using various physical models and representations
<p>Lesson 15: Mental Math Addition</p> <p>Lesson 16: Mental Math Addition Review</p>	<p>How can you use a hundred chart to help you mentally add two-digit numbers?</p>	<ul style="list-style-type: none"> • Addition facts practice • Add two-digit numbers using mental math • Explain the strategies used to add two-digit numbers mentally 	<p>Number and Operations (PK – 2)</p> <p>Communication</p>	<ul style="list-style-type: none"> • Develop and use strategies for whole-number computations, with a focus on addition and subtraction • Develop fluency with basic number combinations for addition and subtraction • Develop fluency with adding and subtracting (3 – 5) • Use a variety of methods and tools to compute, including objects, mental computation, paper and pencil • Develop a sense of whole numbers and represent and use them in flexible ways, including relating, composing, and decomposing numbers • Communicate mathematical thinking

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				<p>coherently and clearly</p> <ul style="list-style-type: none"> • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 17: Mental Math Subtraction</p> <p>Lesson 18: Mental Math Subtraction Review</p>	<p>How can you use the hundred chart to subtract numbers?</p>	<ul style="list-style-type: none"> • Subtraction facts practice • Compute mentally to subtract two 2-digit numbers • Explain the steps and strategies used to subtract two 2-digit numbers mentally 	<p>Number and Operations (PK – 2)</p> <p>Communication</p>	<ul style="list-style-type: none"> • Develop and use strategies for whole-number computations, with a focus on addition and subtraction • Develop fluency with basic number combinations for addition and subtraction • Use a variety of methods and tools to compute, including objects, mental computation, paper and pencil • Develop a sense of whole numbers and represent and use them in flexible ways, including relating, composing, and decomposing numbers • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 19: Estimating Points on a Number Line</p> <p>Lesson 20: Estimating Points on a Number Line Review</p>	<p>How can you use benchmarks to determine the relative location of a number on a number line?</p>	<ul style="list-style-type: none"> • Subtraction facts practice • Use a benchmark to identify the relative location of numbers on a number line • Compare the magnitude of different numbers 	<p>Number and Operations (3 – 5)</p>	<ul style="list-style-type: none"> • Develop fluency in adding and subtracting whole numbers (3 – 5) • Develop understanding of the relative position and magnitude of whole numbers • Use multiples to solve problems (skip counting) (3 – 5) • Use models and benchmarks to judge

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				<p>the size of whole numbers</p> <ul style="list-style-type: none"> Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers (3 – 5)
<p>Lesson 21: Estimating Sums and Differences</p> <p>Lesson 22: Estimating Sums and Differences Review</p>	<p>How can we use the number line and rounding to estimate sums and differences?</p>	<ul style="list-style-type: none"> Addition facts practice Round 3-digit numbers to the nearest 100 Estimate the sum of two 3-digit numbers Determine which operation to use when solving problems 	<p>Number and Operations (PK – 2)</p> <p>Problem Solving</p>	<ul style="list-style-type: none"> Develop fluency in adding whole numbers (3 – 5) Develop understanding of the relative position and magnitude of whole numbers Use models and benchmarks to judge the size of whole numbers Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers (3 – 5) Develop and use strategies for whole-number computations, with a focus on addition and subtraction Develop fluency with basic number combinations for addition and subtraction Use a variety of methods and tools to compute, including objects, mental computation, estimation, and paper and pencil (rounding) Apply and adapt a variety of appropriate strategies to solve problems

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				problems
<p>Lesson 25: Describing Number Patterns</p> <p>Lesson 26: Describing Number Patterns Review</p>	<p>How can you use skip counting and models to identify a number pattern?</p>	<ul style="list-style-type: none"> • Subtraction facts practice • Recognize, identify, and describe a numeric pattern • Create and extend numeric patterns • Identify the rule for numeric patterns 	<p>Number and Operations</p> <p>Algebra</p> <p>Communication</p>	<ul style="list-style-type: none"> • Develop fluency in adding and subtracting whole numbers (3 – 5) • Use multiples to solve problems (skip counting) (3 – 5) • Recognize, describe, and extend patterns such as sequences of shapes or simple numeric patterns and translate from one representation to another • Describe, extend, and make generalizations about geometric and numeric patterns • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely
<p>Lesson 27: Calendars</p> <p>Lesson 28: Calendars Review</p>	<p>How can you use calendars to determine dates in the future or past?</p>	<ul style="list-style-type: none"> • Addition facts practice • Recognize patterns on a calendar • Identify dates in the past and future on a calendar • Interpret the passage of time on a calendar 	<p>Number and Operations</p> <p>Algebra (PK – 2)</p> <p>Measurement</p>	<ul style="list-style-type: none"> • Develop fluency in adding whole numbers (3 – 5) • Recognize, describe, and extend patterns such as sequences or simple numeric patterns and translate from one representation to another • Select and apply appropriate standard units and tools to measure time (3 – 5) • Carry out simple unit conversions within a system of measurement (time) (3 – 5)

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<p>Lesson 29: Telling Time</p> <p>Lesson 30: Telling Time Review</p>	<p>How can you use models to help you tell time?</p>	<ul style="list-style-type: none"> • Subtraction facts practice • Tell time to the nearest minute using an analog clock 	<p>Number and Operations</p> <p>Measurement</p>	<ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers (3 – 5) • Select and apply appropriate standard units and tools to measure time (3 – 5) • Carry out simple unit conversions within a system of measurement (time) (3 – 5)
<p>Lesson 31: Elapsed Time</p> <p>Lesson 32: Elapsed Time Review</p>	<p>How can you use clock models to help you solve problems related to time?</p>	<ul style="list-style-type: none"> • Addition facts practice • Determine the time elapsed when given a starting and ending time • Read and interpret a time schedule • Solve problems involving elapsed time and reading time schedules • Determine which operation to use when 	<p>Number and Operations (PK – 2)</p> <p>Measurement</p>	<ul style="list-style-type: none"> • Develop fluency in adding whole numbers (3 – 5) • Develop and use strategies for whole-number computations, with a focus on addition and subtraction • Use a variety of methods and tools to compute, including objects, (clocks) mental computation, paper and pencil • Select and apply appropriate standard units and tools to measure time (3 – 5) • Carry out simple unit conversions within a system of measurement

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				fractions (3 – 5) <ul style="list-style-type: none"> Recognize and generate equivalent forms of commonly used fractions (3 – 5)
Lesson 37: Bar Graphs Lesson 38: Bar Graphs Review	How can you use information from a graph to solve problems?	<ul style="list-style-type: none"> Addition facts practice Interpret information on a horizontal and vertical bar graph Use information from a bar graph to solve problems involving comparison, logic, and arithmetic Name the elements of a bar graph 	Number and Operations Data Analysis and Probability	<ul style="list-style-type: none"> Develop fluency in adding whole numbers (3 – 5) Develop and use strategies for whole-number computations, with a focus on addition and subtraction Represent data using bar graphs Describe the shape and important features of a set of data and compare related data sets (3 – 5)
Lesson 39: Using Bar Graphs to Find Fractional Parts of a Set Lesson 40: Using Bar Graphs to Find Fractional Parts of a Set Review	How can you use a bar graph to solve problems using fractional parts of a set?	<ul style="list-style-type: none"> Subtraction facts practice Name the fractional part of a set Construct a bar graph Use information from a bar graph to find the fractional parts of a set 	Number and Operations (PK – 2)	<ul style="list-style-type: none"> Develop fluency in subtracting whole numbers (3 – 5) Develop and use strategies for whole-number computations, with a focus on addition and subtraction Understand and represent commonly used fractions Develop understanding of fractions as parts of unit wholes, as parts of a collection Use models, benchmarks, and equivalent forms to judge the size of fractions (3 – 5)

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			Data Analysis and Probability	<ul style="list-style-type: none">• Recognize and generate equivalent forms of commonly used fractions (3 – 5)• Represent data using bar graphs (construct) (3 – 5)• Describe the shape and important features of a set of data and compare related data sets (3 – 5)• Communicate mathematical thinking coherently and clearly• Use the language of mathematics to express mathematical ideas precisely
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