

Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics

| Lesson Learning Quest | Concept/Skill | Objective/Grade(s) | NCTM Standard | NCTM Expectation |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Lesson 1: Understand Basic Fraction Concepts</p> <p>Lesson 2: Understand Basic Fraction Concepts Review</p> <p>How can you use fractional models to understand wholes and fractional parts?</p> | <ul style="list-style-type: none"> • Addition and subtraction facts practice • Use fractional models and parts of a region or set • Recognize and examine a numeric pattern associated with addition and subtraction facts • Represent a fractional part of a whole • Tournament Time explanation | <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 2)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Pre-K – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | <p>Number and Operations</p> <p>Communication</p> | <ul style="list-style-type: none"> • Develop fluency in adding and subtracting whole numbers • Understand and represent commonly used fractions, such as $\frac{1}{4}$, $\frac{1}{3}$, and $\frac{1}{2}$ • Develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely |
| <p>Lesson 3: Understanding Fractional Parts of a Whole and a Group</p> <p>Lesson 4: Understanding Fractional Parts of</p> | <ul style="list-style-type: none"> • Subtraction facts practice • Use fractional models and parts of a region or set • Identify and compare benchmark fractions to 0, $\frac{1}{2}$ and 1 whole • Analyze frequency in | <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 2)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and</i></p> | <p>Number and Operations</p> | <ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Use models, benchmarks, and equivalent forms to judge the size of fractions • Describe parts of the data |

Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics

| | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>a Whole and a Group Review</p> <p>How can fraction benchmarks help you understand fractional parts?</p> | <p>a table or bar graph using knowledge of fractions</p> <ul style="list-style-type: none"> • Construct a frequency using data collection | <p><i>number systems</i> (Pre-K – Grade 5)</p> <p><i>Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them</i> (Pre-K – Grade 5)</p> | <p>Data Analysis and Probability</p> | <p>and the set of data as a whole to determine what the data show</p> <ul style="list-style-type: none"> • Represent data using tables, pictographs, and bar graphs |
| <p>Lesson 5: Learning How to Add Like Fractions</p> <p>Lesson 6: Learning How to Add Like Fractions Review</p> <p>How do you add fractions with like denominators?</p> | <ul style="list-style-type: none"> • Addition facts practice • Use fraction strips as models for adding fractions with like denominators • Solve word problems with realistic connections to fractional parts of a whole • Tournament Time explanation | <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Pre-K – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | <p>Number and Operations</p> <p>Communication</p> | <ul style="list-style-type: none"> • Develop fluency in adding whole numbers • Understand and represent commonly used fractions, such as $\frac{1}{4}$, $\frac{1}{3}$, and $\frac{1}{2}$ • Develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Communicate mathematical thinking coherently and clearly • Use the language of |

**Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics**

| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | mathematics to express mathematical ideas precisely |
| <p>Lesson 7: Learning How to Subtract Like Fractions</p> <p>Lesson 8: Learning How to Subtract Like Fractions Review</p> <p>How do you subtract fractions with like denominators?</p> | <ul style="list-style-type: none"> • Subtraction facts practice • Use fraction strips as models for subtracting fractions with like denominators • Solve words problems with realistic connections to fractional parts of a whole • Tournament Time explanation | <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Pre-K – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | <p>Number and Operations</p> <p>Communication</p> | <ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Understand and represent commonly used fractions, such as $\frac{1}{4}$, $\frac{1}{3}$, and $\frac{1}{2}$ • Develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely |
| <p>Lesson 9: Understanding Simplest Form</p> <p>Lesson 10: Understanding Simplest Form</p> | <ul style="list-style-type: none"> • Multiplication facts practice • Use fraction strips and pattern blocks (hexagons) as models for developing a equivalent fractions | <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 5)</p> <p><i>Understand numbers, ways of representing</i></p> | <p>Number and Operations</p> | <ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals |

Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics

| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Review</p> <p>How can you change a fractional number to its simplest form?</p> | <ul style="list-style-type: none"> • Tournament Time explanation | <p><i>numbers, relationships among numbers, and number systems</i> (Pre-K – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | <p>Communication</p> | <ul style="list-style-type: none"> • Use models, benchmarks, and equivalent forms to judge the size of fractions • Recognize and generate equivalent forms of commonly used fractions • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely |
| <p>Lesson 11: Understanding of Important Fraction Concepts</p> <p>Lesson 12: Understanding of Important Fraction Concepts Review</p> <p>How can you use factors to change a fractional number to its simplest form?</p> | <ul style="list-style-type: none"> • Use skip counting or multiplication to find common multiplies • Identify the GCF (greatest common factor) • Identify equivalent fractions • Change fractions to simplest form • Tournament time explanation | <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Pre-K – Grade 5)</p> <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 5)</p> <p>(Pre- K – Grade 5)</p> | <p>Number and Operations</p> <p>Communication</p> | <ul style="list-style-type: none"> • Recognize equivalent representations for the same number and generate them by decomposing and composing numbers • Recognize and generate equivalent forms of commonly used fractions • Develop fluency with basic number combinations for multiplication and division (multiples and factors) • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely |

Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Lesson 13: Using Fractions to Express the Probability of an Occurrence</p> <p>Lesson 14: Using Fractions to Express the Probability of an Occurrence Review</p> <p>How can you write a fraction to represent the probability of an event?</p> | <ul style="list-style-type: none"> • Subtraction facts practice • Identify equivalent fractions • Express probability as a fraction • Explain the likelihood of an outcome | <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Pre-K – Grade 5)</p> <p><i>Understand and apply basic concepts of probability</i> (Grade 3 – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | <p>Number and Operations</p> <p>Data Analysis and Probability</p> <p>Problem Solving</p> | <ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Recognize equivalent representations for the same number and generate them by decomposing and composing numbers • Recognize and generate equivalent forms of commonly used fractions • Develop fluency with basic number combinations for multiplication and division (multiples and factors) • Understand that the measure of the likelihood of an event can be represented by a number from 0 to 1 • Apply and adapt a variety of appropriate strategies to solve problems |
| <p>Lesson 15: Writing a Probability as a Fraction</p> <p>Lesson 16: Writing a Probability as a Fraction Review</p> | <ul style="list-style-type: none"> • Multiplication facts practice • Express probability as a fraction • Construct and interpret a frequency table • Change fractions to simplest form | <p><i>Compute fluently and make reasonable estimates</i> (Pre-K – Grade 5)</p> <p><i>Formulate questions that can be addressed with data and collect, organize, and display</i></p> | <p>Number and Operations</p> <p>Data Analysis and Probability</p> | <ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Represent data using tables and graphs • Predict the probability of outcomes of simple experiments and test the predictions |

Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics

| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <p><i>probability</i> (Grade 3 – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | Communication | <p>experiments and test the predictions</p> <ul style="list-style-type: none"> • Understand that the measure of the likelihood of an event can be represented by a number from 0 to 1 • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely |
| <p>Lesson 19: Representing, Reading, and Writing Decimals to the Hundredths Place</p> <p>Lesson 20: Representing, Reading, and Writing Decimals to the Hundredths Place?</p> <p>How do you represent tenths to hundredths using place value models?</p> | <ul style="list-style-type: none"> • Subtraction facts practice • Use decimal models • Read and write decimals • Write fractions as a decimal • Compare fractions and decimals • Change fractions to simplest form | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 5)</p> | Number and Operations | <ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Recognize and generate equivalent forms of commonly used fractions and decimals • Explore numbers less than 0 by extending the number line through familiar applications |

**Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics**

| | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Lesson 21: Applying Ideas When Writing a Percentage</p> <p>Lesson 22: Applying Ideas When Writing a Percentage Review</p> <p>How can a fraction and decimal be written as a percent?</p> | <ul style="list-style-type: none"> • Addition facts practice • Express a fraction/decimal as a percent • Read and write decimals • Find equivalent fractions • Identify equivalent fractions • Tournament Time explanation | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | <p>Number and Operations</p> <p>Communication</p> | <ul style="list-style-type: none"> • Develop fluency in adding whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Develop an understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers • Recognize and generate equivalent forms of commonly used fractions, decimals, and percents • Explore numbers less than 0 by extending the number line through familiar applications (100 grid) • Recognize equivalent representations for the same number and generate them by decomposing and composing numbers • Communicate mathematical thinking coherently and clearly • Use the language of |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics**

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | mathematics to express mathematical ideas precisely |
| <p>Lesson 23: Using Number Line to Compare and Order Decimals</p> <p>Lesson 24: Using Number Line to Compare and Order Decimals Review</p> <p>How can you use a number line to compare and order decimals?</p> | <ul style="list-style-type: none"> • Multiplication facts practice • Use decimal models • Read and write decimals • Compare and order decimals | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 8)</p> | Number and Operations | <ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Recognize and generate equivalent forms of commonly used fractions, decimals, and percents • Explore numbers less than 0 by extending the number line through familiar applications • Use models, benchmarks, or equivalent forms to judge the size • Develop an understanding of fractions as parts of unit wholes, as parts of a collection, as locations on number lines, and as divisions of whole numbers |
| <p>Lesson 25: Compare and Order Fractions and Decimals</p> | <ul style="list-style-type: none"> • Multiplication facts practice • Find equivalent fractions • Read and write | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> | Number and Operations | <ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Understand the place-value structure of the base-ten number system and be able |

Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics

| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Value Models to Add and Subtract Decimals</p> <p>Lesson 30: How to Use Place Value Models to Add and Subtract Decimals Review</p> <p>How can you use place value models to add and subtract decimals?</p> | <ul style="list-style-type: none"> • Use decimal models • Read and write decimals • Add and subtract decimals | <p><i>estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 5)</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 and decimals • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals (place value charts, 10 x 10 grids) |
| <p>Lesson 31: Knowledge of Basic Facts and Place Value</p> <p>Lesson 32: Knowledge of Basic Facts and Place Value Review</p> <p>How can an equivalent decimal make finding sums and differences of decimals easier?</p> | <ul style="list-style-type: none"> • Addition facts practice • Find equivalent decimals • Add and subtract decimals • Apply a rule to a table | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 5)</p> | <p>Number and Operations</p> | <ul style="list-style-type: none"> • Develop fluency in adding whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Recognize and generate equivalent forms of commonly used fractions, decimals, and percents |

**Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics**

| | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Lesson 33: Solving Word Problems</p> <p>Lesson 34: Solving Word Problems Review</p> <p>How can you use your knowledge of decimals to help you solve problems?</p> | <ul style="list-style-type: none"> • Subtraction facts practice • Use decimal models • Read and write decimals • Add and subtract decimals • Calculate money amounts • Estimate sums and differences of decimals • Use problem solving strategies • Tournament Time explanation | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 5)</p> <p>(Pre-K – Grade 5)</p> | <p>Number and Operations</p> <p>Problem Solving</p> | <ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Develop and use strategies to estimate the results of whole-number computations and to judge the reasonableness of such results • Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Select appropriate methods for calculating decimals • Build new mathematical knowledge through problem |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics**

| | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | (Pre-K – Grade 5) | Communication | <p>knowledge through problem solving</p> <ul style="list-style-type: none"> Communicate mathematical thinking coherently and clearly Use the language of mathematics to express mathematical ideas precisely |
| <p>Lesson 35: Knowledge of Making Change Using Mental Math</p> <p>Lesson 36: Knowledge of Making Change Using Mental Math Review</p> <p>How can you use your knowledge of decimals to help you make change?</p> | <ul style="list-style-type: none"> Multiplication facts practice Use decimal models Reads and write decimals Adds and subtracts decimals Calculate money amounts (change) Tournament Time explanation | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 5)</p> | Number and Operations | <ul style="list-style-type: none"> Develop fluency in multiplying whole numbers Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals Develop and use strategies to estimate the results of whole-number computations and to judge the reasonableness of such results Develop and use strategies to estimate computations involving fractions and decimals in situations relevant to students' experience Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals |

**Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics**

| | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | (Pre-K – Grade 5) | Communication | <p>decimals</p> <ul style="list-style-type: none"> • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Select appropriate methods for calculating decimals • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely |
| <p>Lesson 37: Rounding Whole Numbers</p> <p>Lesson 38: Rounding Whole Numbers Review</p> <p>How can you use rounding to help you estimate and solve money problems?</p> | <ul style="list-style-type: none"> • Subtraction facts practice • Use decimal models • Reads and write decimals • Adds and subtracts decimals • Calculate money amounts (change) • Rounding decimals (money amounts) • Estimate sums and differences of decimals • Tournament Time explanation | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and number systems</i> (Grade 3 – Grade 5)</p> | Number and Operations | <ul style="list-style-type: none"> • Develop fluency in subtracting whole numbers • Understand the place-value structure of the base-ten number system and be able to represent and compare whole numbers and decimals • Develop and use strategies to estimate the results of whole-number computations and to judge the reasonableness of such results • Develop and use strategies to estimate computations involving fractions and decimals in situations relevant |

**Camelot Learning
Fractions and Decimals
Correlation to The National Council of Teachers of Mathematics**

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | (Pre-K – Grade 5) (Pre-K – Grade 5) | Problem Solving Communication | <p>to students' experience</p> <ul style="list-style-type: none"> • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Use visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions and decimals • Select appropriate methods for calculating decimals • Build new mathematical knowledge through problem solving • Communicate mathematical thinking coherently and clearly • Use the language of mathematics to express mathematical ideas precisely |
| <p>Lesson 39: Relating to the Fractional Parts of the Hour</p> <p>Lesson 40: Relating to the Fractional Parts of the Hour Review</p> | <ul style="list-style-type: none"> • Multiplication facts practice • Use fractional models and parts of a region or set (clock) • Add fractions • Calculate elapsed time • Calculate fractional | <p><i>Compute fluently and make reasonable estimates</i> (Grade 3 – Grade 5)</p> <p><i>Understand numbers, ways of representing numbers, relationships among numbers, and</i></p> | Number and Operations | <ul style="list-style-type: none"> • Develop fluency in multiplying whole numbers • Understand and represent commonly used fractions, such as $\frac{1}{4}$, $\frac{1}{3}$, and $\frac{1}{2}$ • Develop understanding of fractions as parts of unit wholes, as parts of a collection, as locations on |

