

Mrs. Evers
4th Grade Mathematics Syllabus
2011 - 2012 School Year

1st Nine Weeks

Chapter 1: Place Value,

In this chapter, students will be able to:

- Explore one million
- Compare, order, and round whole numbers and money
- Locate numbers on a number line
- Make change
- Read and write numbers through the one billions place
- Solve problems by making a table or list

Chapter 2: Addition and Subtraction Concepts

In this chapter, students will be able to:

- Use addition properties and strategies
- Learn about subtraction concepts
- Estimate sums and differences
- Check addition and subtraction
- Add and subtract whole numbers and money
- Learn about expressions with variables
- Solve problems using logical reasoning

Chapter 3: Addition and Subtraction

In this chapter, the students will be able to:

- Learn about front-end estimation
- Add and subtract larger numbers with regrouping
- Add three or more addends
- Choose the operation to solve a problem

Chapter 4: Multiply by One or Two Digits

In this chapter, the students will be able to:

- Use multiplication properties
- Learn about special factors and patterns
- Explore multiplication models
- Estimate and multiply whole numbers and money
- Solve problems by working backward

2nd Nine Weeks

Chapter 5: Divide by One Digit

In this chapter, the students will be able to:

- Study the meanings and rules of division
- Investigate patterns, missing numbers, and divisibility
- Estimate and divide whole numbers and money
- Explore zeros in the division
- Learn about the order of operation and averages
- Solve problems by interpreting the remainder

Chapter 12: Divide by Two Digits

In this chapter, the students will be able to:

- Learn about patterns
- Estimate in division
- Investigate trial quotients and zeros in division
- Solve problems with more than one step

Chapter 8: Fraction Concepts

In this chapter, the students will be able to:

- Explore fractional parts of regions and sets
- Learn about equivalent fractions and mixed numbers
- Identify fractions on a number line
- Estimate, compare, and order fractions
- Solve problems using logical reasoning

Chapter 9: Fractions: Addition and Subtraction

In this chapter, the students will be able to:

- Add and subtract fractions and mixed numbers
- Estimate sums and differences of mixed numbers
- Explore multiples
- Relate fractions and probability
- Find fractional parts of numbers
- Solve problems by using simpler numbers

3rd Nine Weeks

Chapter 7: Statistics and Probability

In this chapter, the students will be able to:

- Collect, organize, and interpret data
- Investigate combinations
- Predict probability of events
- Explore tree diagrams
- Solve problems by using a diagram or graph

Chapter 10: Geometry

In this chapter, the students will be able to:

- Draw and identify parts of a polygon
- Classify angles, polygons, quadrilaterals, and triangles
- Investigate similar figures, transformation, and coordinate geometry
- Solve problems by finding a pattern

Chapter 11: Perimeter, Area, and Volume

In this chapter, the students will be able to:

- Use models and formulas
- Relate plane and solid figures
- Investigate spatial relationships
- Solve problems using a drawing or model

4th Nine Weeks

Chapter 6: Measurement

In this chapter, the students will be able to:

- Estimate and compute with customary and metric units, with renaming
- Investigate time and temperature
 - Both Fahrenheit and Celsius
- Solve problems using more than one step

Chapter 13: Decimals

In this chapter, the students will be able to:

- Learn about tenths and hundredths
- Compare, order, and round decimals
- Estimate, add, and subtract decimals
- Divide money
- Use more than one step to solve problems

Chapter 14: Get ready for Algebra

In this chapter, the students will be able to:

- Use variables in number sentences
- Find missing numbers and symbols
- Learn about function tables and parenthesis
- Graph equations on coordinate grids
- Solve problems in more than one way