



Math Workshop 3-4 Syllabus

Course Goals

1 Solidify Previous Knowledge

Students solidify previous math knowledge from earlier grades.

2 Practice Current Skills

Students gain additional practice and individualized instruction with skills that they need help on.

3 Learn New Skills

Students learn and improve on new skills and methods they have not yet encountered in school.

Course Topics

1 Place Value

Students learn place values for numbers greater than zero and up to the millions place. Students will be also able to round to the nearest place including basic decimal rounding.

2 Addition and Subtraction

Students learn or review addition and subtraction both horizontally and vertically. Students will learn to carry numbers to other columns and work with numbers up through hundreds or thousands.

3 Multiplication

Students learn or review multiplication steps and methods including word problems that involve multiplication.

4 Division

Students learn or review division steps and methods including dealing with long division and remainders.

5 Fractions

Students learn or review methods for working with fractions including addition, subtraction, multiplication, and graphical representations of fractions.

6 Decimals

Students learn or review methods for working with decimals including addition, subtraction, multiplication, and rounding of decimals.

7 Measurement

Students learn or review methods for measuring area and perimeter, converting units, and knowing which type of units to use for various types of measurement.

Course Schedule

Day 1

Introduction and Icebreaker

Students are introduced to the teacher and to each other and play a couple of quick icebreaker games. The instructor briefly reviews classroom rules.

Take Diagnostic Assessment

Students take the diagnostic assessment to determine their placement within the course curriculum.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 2

Introduction to Place Value

Students are introduced to the concepts of place values for numbers greater than zero and up to the millions place. Students learn to round to the nearest place.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 3

Introduction to Addition and Subtraction

Students are introduced to or review addition and subtraction both horizontally and vertically. Students are introduced to carrying numbers to other columns and working with numbers up through hundreds or thousands.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 4

Introduction to Multiplication

Students are introduced to or review multiplication steps and methods including word problems that involve multiplication.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 5

Introduction to Division

Students are introduced to or review division steps and methods including long division and remainders.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 6

Introduction to Fractions

Students are introduced to or review methods for working with fractions including addition, subtraction, multiplication, and graphical representations of fractions.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 7

Introduction to Decimals

Students are introduced to or review methods for working with decimals including addition, subtraction, multiplication, and rounding of decimals.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 8

Introduction to Measurement

Students are introduced to or review methods for measuring area and perimeter, converting units, and knowing which type of units to use for various types of measurement.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 9

Review/Catch Up/Extra Content Day

Students do one of three things: (1) review all content, (2) catch up on content they missed or have not been able to cover, or (3) learn additional concepts not listed in the course description.

Workbook Activities

Students use their workbooks to practice the content they just reviewed or learned.

Supplemental Activities

Students use different activities to supplement what they have reviewed and learned.

Day 10

Take Final Assessment

Students have an opportunity to show the growth and improvements they have made over the course of the session.

Probability and Logic

Students play around with probability and logical thinking.

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