

Math-U-See Alpha

Scripted Lesson Plans



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Governing Law

This agreement will be governed by the laws in force in the State of Pennsylvania with jurisdiction being in Lancaster, Pennsylvania.

READ THIS FIRST**INTRODUCTION**

Math is a concept-oriented discipline that builds on prior mastery. Moving on to the next concept without having mastered the previous one is fraught with possible problems.

Children do not all learn these concepts in the same way. Math-U-See uses manipulatives in an ingenious way to help children conceptualize what they are learning. It is very important that you understand the lesson and how it is being taught as you work with your child. In the lower levels the lessons are very dependent on the manipulatives. The lesson plans will guide you along the way. Just follow along.

There are those children who are ready to tackle beyond the level that we recommend. Starting them higher would generally not be as effective as moving them faster.

With math, keeping them challenged without frustrating them is a key goal.

GRADE BY GRADE

Below is the grade-by-grade breakdown for Math.

<u>Grade</u>	<u>Curriculum</u>
Kindergarten	Math-U-See Alpha
1 st	Math-U-See Beta
2 nd	Math-U-See Gamma
3 rd	Math-U-See Delta
4 th	Math-U-See Epsilon
5 th	Math-U-See Zeta
6 th	Math-U-See Pre-Algebra

BEFORE YOU BEGIN

Refer to the Veritas Lesson Plans, Lesson 1 for Books and Materials that will be needed to begin. You are ready to begin.

Lesson 1 Day 1

Place Value and the Manipulatives

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 1 Alpha Instruction Manual
Instructional DVD
Copy of Alpha record sheet, page 3 in student workbook
Decimal Street® Chart
Integer Block Kit
Worksheet 1A

OBJECTIVE

Child will learn to write with words and digits a number up to 3 digits. The child will learn to build a number up to 3 digits with manipulative blocks to model place value.

TEACHING

ALERT: Two skills are necessary to function in the **decimal system**: the ability to count from zero to nine and an understanding of **place value**. The decimal system is based on ten (deci). We count from zero to nine and then start over. Illustrate this to your child, e.g. 700, 800, 900, then 1,000 (next place value); or 70, 80, 90, then 100.

Place Value is defined as “Every value has its own place.” There are ten symbols to tell you how many and many values to represent what kind or what (place) value. The numbers zero through nine tell you “how many.” **Units, tens, hundreds, etc.** tell us what kind or what (place) value. Please be sure to say and teach **units** as the place value instead of **ones**.

HOOK: Use the *Decimal Street*® and ask your child, “What is the greatest number of units that can live in this unit house?” Continue to ask for tens house and hundreds castle.

The greatest number that can live in the house is nine. He may say 4, 7, or any other number which is not the greatest number. Show him that if you have one more than nine, it will not fit in the house.

1. Watch video lesson 1.
2. Read Lesson 1 in the Instruction Manual.
3. Demonstrate how to build the number 142.
4. Write the problem on a white board or piece of paper.
5. Explain each step of the problem as you build and write it. Say, “I am going to build the number 142. Let’s count how many blocks are at home in each house.” Then write the number below each house. Build another

example of 253. When he understands this, write a number (217) on the paper and have him build it. Continue building, writing, and saying numbers with up to three digits. 274, 165, 761, 53, 84, 555, 127, and 21.

ALERT: Remember, teach with the blocks then move to the worksheets.

ZERO – Mr. Zero (0) is very important. He is a place holder. Write and illustrate with the number 203. Let's say you were walking down Decimal Street and knocking on each door to see who was at home. If you knock on the Units door and three Units answer, you have three in the Units place. Next door, at the Tens house, you knock, and no one answers. Yet you know someone is there feeding the goldfish and taking care of the bird, as a house sitter might when a family goes on vacation. Mr. Zero won't answer the door because he's not a Ten: he's the one who holds their place until the Tens come home. Upon knocking at the big red Hundreds castle, you find that two Hundreds answer the door. Thus, your numeral is 203.

“TY” – work on enunciating clearly so that 40, 50, 60, etc are pronounced correctly for **TY**, five**TY**, six**TY**.

6. Have the child complete worksheet 1A. Make up more problems if you feel it necessary until the child understands the concept.
7. Record the completion of assignment on record sheet.

ASSIGNMENT

Have child practice building more 3-digit numbers as he writes and says each number. Use the Pick A Card game in the instruction manual to reinforce the concept.

Lesson 1 Day 2

Place Value and the Manipulatives

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 1 Alpha Instruction Manual
Instructional DVD
Alpha record sheet
Decimal Street® Chart
Integer Block Kit
Worksheet 1B

OBJECTIVE

Child will learn to write with words and digits a number up to 3 digits. The child will learn to build a number up to 3 digits with manipulative blocks to model place value.

TEACHING

Hook: Do you remember how to build a number on Decimal Street? Can you build 73?

ALERT: There are two paths in each lesson. The red indicates the child has not remembered a concept from previous day. Follow red instructions. The blue indicates the child has remembered the concept. Follow blue instructions.

1. Use worksheet lesson 1B and ask child to complete problems 1–2 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–2 with the manipulative blocks. *Build, Write, Say.* Build with the manipulative blocks; write the problem out; explain each step. Review Lesson 1 on the DVD if necessary.
3. Build numbers up to three digits. Do as many problems as you feel necessary until the child understands the concept. Write numbers and allow the child to build them and teach you what he has learned. Then have the child complete page 1B.

ALERT: Remember to build numbers with zero so as to stress the concept of Mr. Zero being the place holder.

4. If the child **can** teach you the concept of the lesson, have him build each problem on page 1B as he teaches you what he is doing and how to determine the area of each rectangle.
5. Record the completion of assignment on record sheet.

ASSIGNMENT

None

Lesson 1 Day 3

Place Value and the Manipulatives

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 1 Alpha Instruction Manual
Instructional DVD
Alpha record sheet
Decimal Street® Chart
Integer Block Kit
Worksheet 1C/1D

OBJECTIVE

Child will learn to write with words and digits a number up to 3 digits. The child will learn to build a number up to 3 digits with manipulative blocks to model place value.

TEACHING

Hook: *Do you remember how to build a number on Decimal Street? Can you build 468?*

1. Use worksheet lesson 1C and ask child to complete problems 1–2 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–2 with the manipulative blocks. *Build, Write, Say.* Build with the manipulative blocks; write the problem out; explain each step.
3. Build numbers up to three digits. Do as many problems as you feel necessary until the child understands the concept. Write numbers and allow the child to build them and teach you what he has learned. Allow the child to build the remaining numbers on page 1C and teach you what he has learned. After he demonstrates understanding, have him complete page 1D.
4. If the child **can** teach you the concept of the lesson, have him complete page 1D.
5. Check over work from page 1D to see progress of child.
6. Record the completion of the assignment on the record sheet.

ASSIGNMENT

None

Lesson 1 Day 4

Place Value and the Manipulatives

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 1 Alpha Instruction Manual
Instructional DVD
Alpha record sheet
Decimal Street® Chart
Integer Block Kit
Worksheet 1E

OBJECTIVE

Child will learn to write with words and digits a number up to 3 digits. The child will learn to build a number up to 3 digits with manipulative blocks to model place value.

TEACHING

1. Give the child a couple practice problems from pages 1A–1C to allow him to demonstrate his mastery of the concept or make up some problems of your own.
2. Use the Application and Enrichment page 1E to allow child to continue building numbers.
3. Check over work from page 1E to see progress of child.
4. Record the completion of the assignment on the record sheet.

ALERT: The application and Enrichment page may be scheduled any time after the child has completed the corresponding lesson. Encourage the child to think carefully for himself, but do not hesitate to give him as much help as he needs.

ASSIGNMENT

None

Lesson 1 Day 5

Place Value and the Manipulatives

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook
Math-U-See Alpha Test Booklet

MATERIALS

Lesson 1 Alpha Instruction Manual
Instructional DVD
Alpha record sheet
Integer Block Kit
Test Booklet Lesson One Test

OBJECTIVE

Child will demonstrate his mastery of Lesson One.

TEACHING

1. Give the child a couple practice problems from pages 1A-1C to allow him to demonstrate his mastery of the concept.
2. Give the Lesson Test.
3. Record the completion of the test on the record sheet.

ASSIGNMENT

None

Lesson 2 Day 1

Counting to 20

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 2 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Worksheet 2A

OBJECTIVE

Child will learn to write numbers with words and digits from zero through twenty.

TEACHING

ALERT: The transition from nine to ten is pivotal in understanding counting to 100 and later on for regrouping.

1. Watch video lesson 2.
2. Read Lesson 2 in the Instruction Manual.
3. Model how to write the numbers from zero to nine (same line), ten to nineteen (next line), and twenty (third line). Use the manipulative blocks to represent each number.
4. Write on a white board or piece of paper.
5. Explain each step of the problem as you build and write it.
6. Use worksheet 2A to build, count, and write the numbers from zero to twenty for the child. Allow the child to build, count, and write the remaining problems on page 2A and teach you what he has learned.
7. Record the completion of assignment on record sheet.

ASSIGNMENT

None

Lesson 2 Day 2

Counting to 20

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 2 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Fact Sheet
Integer Block Kit
Worksheet 2B/2D

OBJECTIVE

Child will learn to write numbers with words and digits from zero through twenty.

TEACHING

ALERT: *There are two paths in each lesson. The red indicates the child has not remembered concept from previous day. Follow red instructions. The blue indicates the child has remembered the concept. Follow blue instructions.*

1. Use worksheet lesson 2B and ask child to complete problem 1 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1. *Build, Write, Say.* Build with the manipulative blocks; write the problem out; explain each step. Review Lesson 2 on the DVD if necessary.
3. Use worksheet 2B. Allow the child to build, count, and write the remaining problems on page 2B and teach you what he has learned.
4. If the child **can** teach you the concept of the lesson, have him count and write each problem on page 2B as he teaches you what he has learned.
5. Record the completion of assignment on record sheet.

ASSIGNMENT

Complete worksheet 2D if the child has mastered the concept.

Lesson 2 Day 3

Counting to 20

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 2 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Worksheet 2C/2D/2E

OBJECTIVE

Child will learn to write numbers with words and digits from zero through twenty.

TEACHING

1. Use worksheet lesson 2C and ask child to complete problems 1 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1. *Build, Write, Say*. Build with the manipulative blocks; write the problem out; explain each step. Practice counting and writing numbers up to twenty.
3. Use worksheet 2C. Do as many problems as you feel necessary until the child understands the concept. Allow the child to count and write the remaining problems on page 2C and teach you what he has learned. After he demonstrates understanding, have him complete page 2D.
4. If the child **can** teach you the concept of the lesson, have him complete page 2E.
5. Check over work from page 2D to see progress of child.
6. Record the completion of the assignment on the record sheet.

ASSIGNMENT

Complete worksheet 2E if the child has mastered the concept.

Lesson 2 Day 4

Counting to 20

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 2 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Worksheet 2F/2G

OBJECTIVE

Child will learn to write numbers with words and digits from zero through twenty.

TEACHING

1. Give the child a couple practice problems from pages 2A–2C to allow him to demonstrate his mastery of the concept.
2. Use the Application and Enrichment page 2G. Dot-to-dot activities are a great way to practice counting.
3. Check over work from page 2E to see progress of child.
4. Record the completion of the assignment on the record sheet.

ALERT: The application and Enrichment page may be scheduled any time after the child has completed the corresponding lesson. Encourage the child to think carefully for himself, but do not hesitate to give him as much help as he needs.

ASSIGNMENT

Complete worksheet 2F if the child has mastered the concept.

Lesson 2 Day 5

Counting to 20

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook
Math-U-See Alpha Test Booklet

MATERIALS

Lesson 2 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Test Booklet Lesson Two Test

OBJECTIVE

Child will demonstrate his mastery of Lesson 2.

TEACHING

1. Give the child a couple practice problems from pages 2A–2C to allow him to demonstrate his mastery of the concept.
2. Give the Lesson Test.
3. Record the completion of the test on the record sheet.

ASSIGNMENT

Play games to practice counting to twenty and writing numbers up to three digits.

Lesson 3 Day 1

Unit Bars

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 3 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Worksheet 3A

OBJECTIVE

Child will learn to identify the value of each manipulative block by color and represent numbers zero through nine with the manipulative blocks.

TEACHING

ALERT: There are four levels of arithmetic: Counting, Adding (which is fast counting), Multiplying (which is fast adding), and Exponents (which is fast multiplying). Children need to continue to move up each level to master arithmetic. To move from counting to adding, the child has to learn the values of the bars so that he can add two plus three to get five, instead of counting, “one-two,” and then, “three, four, five.” Before attempting addition, be sure the child knows that a group of three green units is the same as one pink unit bar, which is three units long. The skill is often called the conservation of matter. This concept is very important, as it is the basis of addition – two units plus three units has the same value as five units. Wean the child from the green units exclusively to using the colored unit bars to be sure the child is not counting, but rather adding.

1. Watch video lesson 3.
2. Read Lesson 3 in the Instruction Manual. Understand the importance of learning and using the colored unit bars.
3. Write the number on a white board or piece of paper. Have the child match which bar is represented by each number.
4. Use worksheet 3A to count, match, and say each number. Allow the child to count, match, and say each problem on page 3A and teach you what he has learned.
5. Record the completion of assignment on record sheet.

ASSIGNMENT

1. Be sure to give the child time to “play” with the blocks. As the child builds, he automatically learns the relationships between the different numbers. For example, if the six bar is laid on top of the ten bar, it doesn’t take long for most children to realize that a four bar is needed to finish the row.
2. Play one of the games in found in the instruction manual to help identify the unit bars.

Lesson 3 Day 2

Unit Bars

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 3 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Worksheet 3B/3D

OBJECTIVE

Child will learn to identify the value of each manipulative block by color and represent numbers zero through nine with the manipulative blocks.

TEACHING

ALERT: *There are two paths in each lesson. The red indicates the child has not remembered concept from previous day. Follow red instructions. The blue indicates the child has remembered the concept. Follow blue instructions.*

1. Use worksheet lesson 3B and ask child to complete problems 1–2 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–2 with the manipulative blocks. *Build, Write, Say.* Build with the manipulative blocks; write the problem out; explain each step. Review Lesson 3 on the DVD if necessary.
3. Use worksheet 3B. Do as many problems as you feel necessary until the child understands the concept. Allow the child to count, match, and say the remaining problems on page 3B and teach you what he has learned.
4. If the child **can** teach you the concept of the lesson, have him count, match, and say each problem on page 3B as he teaches you what he has learned.
5. Record the completion of assignment on record sheet.

ASSIGNMENT

1. **Complete** worksheet 3D if the child has mastered the concept.
2. Play one of the games in found in the instruction manual to help identify the unit bars.

Lesson 3 Day 3

Unit Bars

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 3 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Worksheet 3C/3E

OBJECTIVE

Child will learn to identify the value of each manipulative block by color and represent numbers zero through nine with the manipulative blocks.

TEACHING

1. Use worksheet lesson 3C and ask child to complete problems 1–2 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–2 with the manipulative blocks. *Build, Write, Say*. Build with the manipulative blocks; write the problem out; explain each step.
3. Use worksheet 3C. Allow the child to count, match, and say the remaining problems on page 3C and teach you what he has learned. After he demonstrates understanding, have him complete page 3D.
4. If the child **can** teach you the concept of the lesson, have him complete page 3E.
5. Check over work from page 3D to see progress of child.
6. Record the completion of the assignment on the record sheet.

ASSIGNMENT

Complete worksheet 3E if the child has mastered the concept.

Lesson 3 Day 4

Unit Bars

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 3 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Worksheet 3F/3G

OBJECTIVE

Child will learn to identify the value of each manipulative block by color and represent numbers zero through nine with the manipulative blocks.

TEACHING

1. Give the child a couple practice problems from pages 3A–3C to allow him to demonstrate his mastery of the concept.
2. Use the Application and Enrichment page 3G. Have fun using your blocks to measure lines.
3. Check over work from page 3E to see progress of child.
4. Record the completion of the assignment on the record sheet.

ASSIGNMENT

Complete worksheet 3F if the child has mastered the concept.

Lesson 3 Day 5

Unit Bars

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook
Math-U-See Alpha Test Booklet

MATERIALS

Lesson 3 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Integer Block Kit
Test Booklet Lesson Three Test

OBJECTIVE

Child will demonstrate his mastery of Lesson 3.

TEACHING

1. Give the child a couple practice problems from pages 3A–3C to allow him to demonstrate his mastery of the concept.
2. Give the Lesson Test.
3. Record the completion of the test on the record sheet.

ASSIGNMENT

None

Lesson 4 Day 1

Addition: Symbols, +0

Word Problem Tips

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 4 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Worksheet 4A

OBJECTIVE

Child will learn to identify the addition and equal symbols. Child will learn to solve +0 problems written horizontally and vertically and solve word problems. Child will learn long, longer, longest, short, shorter, and shortest comparisons with using the manipulative blocks.

TEACHING

ALERT: Read the word problem tips in the instruction manual to assist in teaching your child how to solve word problems.

1. Watch video lesson 4.
2. Read Lesson 4 in the Instruction Manual. As a readiness exercise, practice counting up by ones from zero to nine and backwards from nine to zero.
3. Demonstrate how to add $2 + 0 =$, $0 + 3 =$. When teaching illustrate by saying, "We have two dogs, and we didn't get any more today. So we have two plus no more, or $2 + 0 = 2$."

ALERT: Stress the concept of "nothing."

4. Write the problem on a white board or piece of paper.
5. Explain each step of the problem as you build and write it.
6. Use worksheet 4A to build some of the problems for the child. Do as many problems as you feel necessary until the child understands the concept. Allow the child to build and solve the remaining problems on page 4A and teach you what he has learned.
7. Begin memorizing the +0 addition facts. Record the memorization of addition facts on the addition chart fact sheet.
8. Record the completion of assignment on record sheet.

ASSIGNMENT

Practice addition $+0$.

Lesson 4 Day 2

Addition: Symbols, +0

Word Problem Tips

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 4 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Worksheet 4B/4D

OBJECTIVE

Child will learn to identify the addition and equal symbols. Child will learn to solve +0 problems written horizontally and vertically and solve word problems. Child will learn long, longer, longest, short, shorter, and shortest comparisons with using the manipulative blocks.

TEACHING

ALERT: *There are two paths in each lesson. The red indicates the child has not remembered concept from previous day. Follow red instructions. The blue indicates the child has remembered the concept. Follow blue instructions.*

1. Use worksheet lesson 4B and ask child to complete problems 1–4 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–4 with the manipulative blocks. *Build, Write, Say.* Build with the manipulative blocks; write the problem out; explain each step. Review Lesson 4 on the DVD if necessary.
3. Use worksheet 4B. Do as many problems as you feel necessary until the child understands the concept. Allow the child to build and solve the remaining problems on page 4B and teach you what he has learned.
4. If the child **can** teach you the concept of the lesson, have him build each problem on page 4B as he teaches you what he has learned.
5. Begin memorizing the +0 addition facts. Record the memorization of addition facts on the addition chart fact sheet.
6. Record the completion of assignment on record sheet.

ASSIGNMENT

1. **Complete** worksheet 4D if the child has mastered the concept.
2. Practice addition of +0.

Lesson 4 Day 3

Addition: Symbols, +0

Word Problem Tips

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 4 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Math-U-See Online Drill page
Worksheet 4C/4E

OBJECTIVE

Child will learn to identify the addition and equal symbols. Child will learn to solve +0 problems written horizontally and vertically and solve word problems. Child will learn long, longer, longest, short, shorter, and shortest comparisons with using the manipulative blocks.

TEACHING

1. Use worksheet lesson 4C and ask child to complete problems 1–4 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–4 with the manipulative blocks. *Build, Write, Say*. Build with the manipulative blocks; write the problem out; explain each step. Review Lesson 4 on the DVD if necessary.
3. Use worksheet 4C. Do as many problems as you feel necessary until the child understands the concept. Allow the child to build and solve the remaining problems on page 4C and teach you what he has learned. After he demonstrates understanding, have him complete page 4D.
4. If the child **can** teach you the concept of the lesson, have him complete page 4E.
5. Check over work from page 4D to see progress of child. Use Math-U-See's Online Drill page to practice addition +0 facts. Record memorization progress on the addition chart fact sheet.
6. Record the completion of the assignment on the record sheet.

ASSIGNMENT

1. **Complete** worksheet 4E if the child has mastered the concept.
2. Practice addition of +0.

Lesson 4 Day 4

Addition: Symbols, +0

Word Problem Tips

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 4 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Math-U-See Online Drill page
Worksheet 4F/4G

OBJECTIVE

Child will learn to identify the addition and equal symbols. Child will learn to solve +0 problems written horizontally and vertically and solve word problems. Child will learn long, longer, longest, short, shorter, and shortest comparisons with using the manipulative blocks.

TEACHING

1. Give the child a couple practice problems from pages 4A–4C to allow him to demonstrate his mastery of the concept.
2. Use the Application and Enrichment page 4G.
3. Check over work from page 4E to see progress of child. Use Math-U-See's Online Drill page to practice addition +0 facts. Record memorization progress on the addition chart fact sheet.
4. Record the completion of the assignment on the record sheet.

ASSIGNMENT

1. Complete worksheet 4F if the child has mastered the concept.
2. Practice and drill addition +0 facts.
3. If child needs extra problems to master the concept, use the worksheet generator on the Math-U-See website to generate as many as you may need. <https://mathusee.com/e-learning/worksheets>

Lesson 4 Day 5**Addition: Symbols, +0**

Word Problem Tips

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook
Math-U-See Alpha Test Booklet

MATERIALS

Lesson 4 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Math-U-See Online Drill page
Test Booklet Lesson Four Test

OBJECTIVE

Child will demonstrate his mastery of Lesson 4.

TEACHING

1. Give the child a couple practice problems from pages 4A–4C to allow him to demonstrate his mastery of the concept.
2. Give the Lesson Test.
3. Record the completion of the test on the record sheet.
4. Use the Addition Chart Fact Sheet to record mastery of the math facts.

ASSIGNMENT

Drill addition +0 facts.

Lesson 5 Day 1

Addition: +1, Commutative Property

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 5 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Math-U-See Online Drill page
Integer Block Kit
Worksheet 5A

OBJECTIVE

Child will learn to represent addition with the manipulative blocks. Child will learn to add one to any number less than ten by using blocks, by counting on, and by memory. Child will learn and demonstrate the concept of the Commutative Property of Addition by using the manipulative blocks.

TEACHING

1. Watch video lesson 5.
2. Read Lesson 5 in the Instruction Manual.
3. Demonstrate the concept of one more. Have your child put his finger on the three bar. Say, "Point to the number that is one more than that." The child should point to four and say four. Continue with questions like: "What is one larger than?...If you add one to five, what do you have?...What is one greater than six?"
4. Demonstrate addition $3 + 1$. Begin by taking the green unit bar and placing it end to end with the pink three bar. Ask the child if he can find another bar that is the same length as the one bar and three bar "smooshed" together. This is addition – placing one bar end to end with another bar and finding a third bar that is the same length.
5. Write the problem on a white board or piece of paper. Write, " $3 + 1 = 4$ "
6. Explain each step of the problem as you build and write it. Now say, "One plus three is the same length as four."

ALERT: Be sure to illustrate that $3 + 1$ is the same as $1 + 3$. The Commutative Property of Addition.

7. Use worksheet 5A to build some of the problems for the child. Do as many problems as you feel necessary until the child understands the concept. Allow the child to build and solve the remaining problems on page 5A and teach you what he has learned.
8. Practice addition +1 facts. Record memorization progress on the addition chart fact sheet.
9. Record the completion of assignment on record sheet.

ASSIGNMENT

1. Practice addition +1.
2. Continue to drill addition facts +0.

Lesson 5 Day 2

Addition: +1, Commutative Property

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 5 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Math-U-See Online Drill Page
Integer Block Kit
Worksheet 5B/5D

OBJECTIVE

Child will learn to represent addition with the manipulative blocks. Child will learn to add one to any number less than ten by using blocks, by counting on, and by memory. Child will learn and demonstrate the concept of the Commutative Property of Addition by using the manipulative blocks.

TEACHING

ALERT: *There are two paths in each lesson. The red indicates the child has not remembered concept from previous day. Follow red instructions. The blue indicates the child has remembered the concept. Follow blue instructions.*

1. Use worksheet lesson 5B and ask child to complete problems 1–4 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–4 with the manipulative blocks. *Build, Write, Say.* Build with the manipulative blocks; write the problem out; explain each step. Review Lesson 5 on the DVD if necessary.
3. Use worksheet 5B. Do as many problems as you feel necessary until the child understands the concept. Allow the child to build and solve the remaining problems on page 5B and teach you what he has learned.
4. If the child **can** teach you the concept of the lesson, have him build each problem on page 5B as he teaches you what he has learned.
5. Practice addition +1. Begin memorizing the facts and record on the Addition Chart Fact Sheet.
6. Record the completion of assignment on record sheet.

ASSIGNMENT

1. **Complete** worksheet 5D if the child has mastered the concept.
2. Practice Addition +1. Begin memorizing the facts.
3. Continue to drill addition +0 facts.

Lesson 5 Day 3

Addition: +1, Commutative Property

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 5 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Math-U-See Online Drill page
Worksheet 5C/5E

OBJECTIVE

Child will learn to represent addition with the manipulative blocks. Child will learn to add one to any number less than ten by using blocks, by counting on, and by memory. Child will learn and demonstrate the concept of the Commutative Property of Addition by using the manipulative blocks.

TEACHING

1. Use worksheet lesson 5C and ask child to complete problems 1–4 as he teaches you the concept.
2. If the child **cannot** remember and teach you how to do these problems, reteach the lesson. Model how to do problems 1–4 with the manipulative blocks. *Build, Write, Say.* Build with the manipulative blocks; write the problem out; explain each step. Review Lesson 5 on the DVD if necessary.
3. Use worksheet 5C. Do as many problems as you feel necessary until the child understands the concept. Allow the child to build and solve the remaining problems on page 5C and teach you what he has learned. After he demonstrates understanding, have him complete page 5D.
4. If the child **can** teach you the concept of the lesson, have him complete page 5E.
5. Check over work from page 5D to see progress of child. Use Math-U-See's Online Drill page to practice addition math facts. Continue practicing addition +1 facts. Record memorization progress on addition chart fact sheet.
6. Record the completion of the assignment on the record sheet.

ASSIGNMENT

1. Complete worksheet 5E if the child has mastered the concept.
2. Practice addition +1 facts.
3. Continue to drill addition +0 facts.

Lesson 5 Day 4

Addition: +1, Commutative Property

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 5 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Math-U-See Online Drill page
Worksheet 5F/5G

OBJECTIVE

Child will learn to represent addition with the manipulative blocks. Child will learn to add one to any number less than ten by using blocks, by counting on, and by memory. Child will learn and demonstrate the concept of the Commutative Property of Addition by using the manipulative blocks.

TEACHING

1. Give the child a couple practice problems from pages 5A–5C to allow him to demonstrate his mastery of the concept.
2. Use the Application and Enrichment page 5G.
3. Check over work from page 5E to see progress of child. Use Math-U-See's Online Drill page to practice addition math facts. Record progress on the addition chart fact sheet.
4. Record the completion of the assignment on the record sheet.

ASSIGNMENT

1. Complete worksheet 5F if the child has mastered the concept.
2. Continue to drill addition facts +0, +1.
3. If child needs extra problems to master the concept, use the worksheet generator on the Math-U-See website to generate as many as you may need. <https://mathusee.com/e-learning/worksheets>

Lesson 5 Day 5

Addition: +1, Commutative Property

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook
Math-U-See Alpha Test Booklet

MATERIALS

Lesson 5 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Addition Chart Fact Sheet
Integer Block Kit
Math-U-See Online Drill page
Test Booklet Lesson Five Test

OBJECTIVE

Child will demonstrate his mastery of Lesson 5.

TEACHING

1. Give the child a couple practice problems from pages 5A–5C to allow him to demonstrate his mastery of the concept.
2. Give the Lesson Test.
3. Record the completion of the test on the record sheet.
4. Use the Addition Chart Fact Sheet to record mastery of the math facts.

ASSIGNMENT

Drill addition +0, +1 facts.

Lesson 6 Day 1**Counting to 100, Skip Counting by 10**

Counting Past 100

BOOKS

Math-U-See Alpha Instruction Manual
Math-U-See Alpha Student Workbook

MATERIALS

Lesson 6 Alpha Instruction Manual
Instructional DVD
Alpha Record Sheet
Math-U-See Online Drill page
Integer Block Kit
Worksheet 6A

OBJECTIVE

Child will learn to count to 100 and past 100 with the manipulative blocks. Child will learn to count by tens.

TEACHING

1. Watch video lesson 6.
2. Read Lesson 6 in the Instruction Manual.
3. Have the child practice filling in the numbers on the blank lines up to 100. Require this only enough for the child to demonstrate the ability to do so. Demonstrate how to skip count by tens with the manipulative blocks.
4. Write the problem on a white board or piece of paper.
5. Explain each step of the problem as you build and write it.
6. Use worksheet 6A to write the numbers up to 100. Allow the child to build and skip count by tens.
7. Record the completion of assignment on record sheet.

ASSIGNMENT

Continue to drill addition facts of +0 and +1.