

Kolbe Academy Home School

GRADE ONE MATHEMATICS *MCP Math A*

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COURSE TITLE: Mathematics

COURSE TEXTS:

MCP Math A, 1994 (T4201)

MCP Math A Resource Manual (T4201A), Optional

COURSE DESCRIPTION:

This course is based on the natural processes of thinking, namely induction and deduction. Inductive thinking arrives at the answer almost immediately because it seems obvious (although it is not always exact). Deductive thinking is a step-by-step process of reasoning leading to a solution. One process is not better than the other, only different from the other.

Manipulatives are very important with beginning math. Strings of beads, Legos, toothpicks, or anything that can be counted will work. The child should understand that six is not just six, but is six ones. He should count out the amounts and begin to memorize the facts. Begin with the simplest of addition and subtraction problems using manipulatives. Once he understands the concepts, use flash cards to memorize the facts, building up from the smaller to the larger. This can be done before starting in the math book.

Have the student correct all mistakes made in written work with the explanation that we learn from our mistakes. We recommend that you do not tear out the pages of the mathematics book because if there is a need to review a concept, the student will not be able to look back and find where it was introduced.

SCOPE AND SEQUENCE:

Quarter 1

1. Numbers 0 through 10
2. Addition and subtraction, sums and minuends through 10
3. Basic facts, sums through 10

Quarter 2

1. 2-digit place value
2. Addition and subtraction, sums and minuends through 18
3. Money and time

Quarter 3

1. Basic facts, sums through 18
2. Adding and subtracting 2- and 1-digit numbers
3. 3-digit place value through 200

Quarter 4

1. Addition of 2-digit numbers
2. Geometry and measurement
3. Fractions and graphing

COURSE OBJECTIVES

- ❖ developing inductive and deductive thinking
- ❖ mental activity of adding numbers without use of paper and pencil
- ❖ use of real objects for association of abstract principles
- ❖ all segments of problems written for the development of:
 - mental skills
 - finger dexterity
- ❖ counting
- ❖ learning simple functions
- ❖ addition
- ❖ subtraction
- ❖ working with simple functions
- ❖ understanding the addition of zero
- ❖ geometric figures
- ❖ counting in tens, fives, and twos
- ❖ developing basic skills involving two digit numbers
- ❖ introducing fractions, time, and money
- ❖ solving story problems

COURSE PLAN METHODOLOGY:

Kolbe Academy has worked diligently to create the best possible course plans with the home schooling family in mind. Remember, however, that our program is intended to be flexible. Per the principle of subsidiarity, these course plans are a **suggested** course of study. As the teacher, you should adapt and modify them to meet the individual learning needs of your child. **Do not feel obligated to follow these course plans exactly.**

In the course plans that follow, *Modern Curriculum Press Math Book A* is represented by the abbreviation **MCP**. Each weekly assignment is summarized in the first rows of the week's daily course plan along with the goals and notes for that week. The specific daily assignments for the student are outlined in the following lines indicated by the **DAY 1, DAY 2, DAY 3, and DAY 4** abbreviations. Parent daily guidelines are given to the right of the student assignments. Most families will use Days 1-4 as a Monday through Thursday schooling schedule. This leaves Friday open for review, catch-up, field trips, or other activities. A family's schedule can and should vary as needed.

A weekly grade book is included at the end of the week's course plan *as a convenience*. Parents should use the grade book only as a help to their homeschooling and not as a hindrance. It includes a cumulative list of written assignments from the week's course plan as well as space for additional assignments, if needed. **Kolbe Academy does not require that you keep record of all student work.** If you intend to report your student's work to Kolbe Academy for an official record, only one sample of written and graded work is required per quarter per course along with the signed and filled out report card. The weighting suggestion in the end of quarter grade book is there for *convenience* and may be modified as the parent deems fit. Please consult the welcome packet for a full tutorial on using the grade book.

This mathematics course contains 36 weeks broken into four 9-week quarters. Week 8 is considered a review week and week 9 is dedicated strictly to examination. Your student may not need all of Week 8 for review. You can use this time to catch up if necessary and then go over the subject matter. **If you intend to use the tests provided, look them over *before* teaching the subjects and make sure you review the material in the tests throughout the quarter.** Some children have a difficult time doing written exams, but it is important for them to learn how to take them. If your first grader does poorly on them, give them to him orally a couple of days after he has taken them and average the grades.

Finally, begin every class with a prayer. This is a good way to help the child memorize new prayers. Repeat the same ones every day until they are known. Be sure to explain the meanings of the prayers. Repetition in all areas of study is most beneficial.

◆◆◆ FIRST QUARTER ◆◆◆

WEEK 1				
Book	Weekly Breakdown	Goals and Notes for the Week		
MCP	Pages 1-12	Recognize concepts of numbers 0 through 9 and write each one correctly.		
Notes				
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines	
DAY 1	MCP Do pages 1-3	<input type="checkbox"/>	Make sure all numbers are written correctly, beginning at the top and moving down.	
DAY 2	MCP Do pages 4-6	<input type="checkbox"/>	In writing the 4, tell the student to pick up the pencil to make the vertical line.	
DAY 3	MCP Do pages 7-9	<input type="checkbox"/>	Show the student how to count items from left to right. If he becomes confused when there are a large number of items, have him circle each one as he counts.	
DAY 4	MCP Do pages 10-12	<input type="checkbox"/>		
Week 1 Grade Book				
Assignments	Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Pages 1-3	<input type="checkbox"/>			
Pages 4-6	<input type="checkbox"/>			
Pages 7-9	<input type="checkbox"/>			
Pages 10-12	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Week 1 Average	Add up column C & divide by number of included <input checked="" type="checkbox"/> assignments =			%

◆ COURSE PLAN ◆

WEEK 2				
Book	Weekly Breakdown	Goals and Notes for the Week		
MCP	Pages 13-24	Recognize the concept of 10; write the numbers 0 through 10 in order; count pennies through 9 cents; compare numbers to solve problems		
Notes				
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines	
DAY 1	MCP Do pages 13-15	<input type="checkbox"/>	Encourage neatness in counting and writing the numbers.	
DAY 2	MCP Do pages 16-18	<input type="checkbox"/>	Be sure the student counts and writes the numbers correctly.	
DAY 3	MCP Do pages 19-21	<input type="checkbox"/>	When working with money, it is always good to have real or play money available.	
DAY 4	MCP Do pages 22-24	<input type="checkbox"/>	If the student has not mastered the unit, re-teach using any manipulatives available.	
Week 2 Grade Book				
Assignments	Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Pages 13-15	<input type="checkbox"/>			
Pages 16-18	<input type="checkbox"/>			
Pages 19-21	<input type="checkbox"/>			
Pages 22-24	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Week 2 Average	Add up column C & divide by number of included <input checked="" type="checkbox"/> assignments =			%