

# Grade 4

## MEP Math

### Organization Guide

#### IMPORTANT NOTES

**MEP Math Year 5:** You will be using the MEP Math Year 5 curriculum for Fourth Grade. MEP is a European math curriculum and the concepts taught in Year 5 are equivalent to the concepts commonly taught in the U.S. during Fourth Grade. The MEP Math curriculum can be download here: <https://bit.ly/3sNP7pW>

**Placement:** Prior to starting this curriculum, your student should have completed a Third Grade math curriculum and ideally have the following skills:

- Confidently use numbers up to 10,000 in addition, subtraction, multiplication, and division
- Have instant recall (or be close to it) of 10x10 multiplication facts
- Understand equivalent fractions and be able to add and subtract fractions
- Understand decimals and fraction equivalents with tenths and hundredths and be able to covert decimals to fractions and vice versa
- Factor whole numbers
- Round to the nearest 10, 100, 1000
- Use metric units of measurement to the millimeter
- Understand and use negative numbers in context
- Order a set of numbers including negative numbers
- Perform simple addition and subtraction calculations with negative numbers
- Find the perimeter, area, and volume of simple shapes using whole numbers, fractions, or decimals
- Recognize symmetry, congruence, and identify lines of symmetry for simple 2D shapes
- Use tally charts, pie charts, bar charts, and pictograms to illustrate data
- Understand the concept of median in relationship to numbers and find simple probabilities

## FREE RESOURCES

**How-to Videos:** Watch the videos to learn to use the MEP Math curriculum to homeschool: <https://bit.ly/3ngnMcA>

**Daily Schedule:** A free daily schedule for homeschooling Fourth Grade using the Core Knowledge curriculum and MEP Math curriculum is available here: <https://bit.ly/3zPmWJ2>

## PRIMARY MATERIALS PREPARATION INSTRUCTIONS

**Lesson Plans:** There are 6 sets of lesson plans for Year 5 and these make up the teacher's guide for the curriculum. The lesson plans are broken up by lesson number ranges so the files are smaller to download.

- **Option #1:** To teach a lesson you can simply open the PDF file on your device and navigate to the lesson for that day.
- **Option #2:** Print all six files double-sided and place them in a binder or have them spiral bound at an office supply store.

**IMPORTANT NOTE:** This is a European curriculum and is formatted for size A4 paper instead of the standard 8.5"x11" paper common in the U.S. To print any of the curriculum documents you should either purchase [A4 size paper](#) or use the "fit" setting in the file printing options. Please note, if you use the "fit" setting, activities involving learning measurement won't work properly since the content will have been squished to fit the smaller paper.

**Practice Book:** There are 6 sets of practice book pages for Year 5 and these are the worksheets for the curriculum. The practice book is broken up by lesson page ranges so the files are smaller to download.

- Print all six files double-sided and place them in a binder or have them spiral bound at an office supply store.

**Practice Book Answers:** There are 6 sets of practice book answer pages for Year 5. The practice book answer pages are broken up by lesson page ranges so the files are smaller to download.

- Access these PDF files on your device when you need to check your student's work. While these files can be printed, it is unnecessary to do so.

**Copymasters:** The copymasters are demonstration sheets you will use to teach your student. The copymasters are broken up by lesson number ranges so the files are smaller to download. Each copymaster has a letter/number combination listed in the bottom right-hand corner. For example, LP10/6 refers to Lesson Plan 10, Activity 6.

- Print all six files copymaster files for Year 5 and place them in a binder or have them spiral bound along with the practice book pages at an office supply store. These files can be printed double-sided.

**Optional Support Materials:** These files are available on the MEP Math website and are for your reference only. These files do not need to be printed.

- **Learning Objectives:** A summary of the skills the student will learn during the school year.
- **Facts to Know and Remember:** A reference sheet of the math facts your student should memorize throughout year.
- **Revision Questions and Answers:** As errors in the curriculum are found, this is where the publisher posts the revisions.
- **Exercises and Solutions:** You do not need these files to homeschool.

## GETTING ORGANIZED

### Lesson Plan Organization:

- Each lesson plan includes several numbered activities. Each activity is scripted so you will know exactly how to present the information to your student. Each activity also includes a column listing any manipulatives or other supplies needed.
  
- At the top each lesson plan is a box with an overview of the lesson topics:
  - **“R”** refers to the review topic for the lesson. MEP Math is a “spiral” curriculum, so it incorporates regular review of previously learned concepts. Review activities should generally be completed each lesson day but can be skipped occasionally, if a student has mastered the skill being reviewed.
  
  - **“C”** refers to the core topics and are the main teaching for that day. Core activities should be completed each lesson day.
  
  - **“E”** refers to extension or extra activities which are optional. Not all lessons include an extension/extra activity. But when they do, there will be an “extension” indication in the right-hand column next to the activity so you’ll be able to identify that portion of the lesson and decide whether to skip it.

### Common Acronyms Found in the Lesson Plans:

- **"T"** = Teacher (you)
- **"P"** = Pupil (student)
- **"BB"** = Blackboard. This generally indicates something should be written out and shown to the student. If you do not have a white board, chalk board, or board paper handy, you can write this information out on a regular piece of paper.
- **"LHS"/"RHS"** = Left-hand side and Right-hand side
- **"Book 5, page 10"** or a similar designation = The practice book (worksheets) and the page number

**Advanced Preparation:** It is highly recommended that you should always read through each lesson the night before:

- Ensure that you understand the material and can follow the script for presenting it to your student. This is a very high-quality math curriculum focused on fostering deep understanding of mathematical concepts, but it is a different approach than most American adults experienced in their own education. Giving yourself time to process and understand the material will make for a more smooth and efficient lesson with your student.
- Ensure you have all the supplemental materials handy. Sometimes you will need to make a simple set of materials such as writing some math equations on index cards.

## IMPORTANT TIPS

**European Curriculum:** This math curriculum was developed by the Center for Innovation in Mathematics Teaching and was tested in a number of European Countries. If you are an American family, using this European curriculum, there are a few things to keep in mind:

- All curriculum documents are formatted to be printed on size A4 paper instead of the standard 8.5"x11" paper common in the U.S. To print any of the curriculum documents you should either purchase [A4 size paper](#) or use the "fit" setting in the file printing options. Please note, if you use the "fit" setting, activities involving learning to measure won't work properly since the content will have been squished to fit the smaller paper.
- Metric system measurements and European currency designations are taught throughout this program. You will need to teach your student the imperial (U.S.) system of measurement and the dollar currency designations separately. The website [www.math-aids.com](http://www.math-aids.com) is a free website to print practice worksheets including those for measurement and money activities.

**Designed for Classroom Use:** This curriculum was designed for use in a classroom setting. You will need to make small adjustments to activities when working one-on-one with your student.

**Time Suggestions on Lesson Plans:** Every lesson plan has a time designated for each activity for a total of 45 minutes per school day. These time suggestions are meant for classroom teachers and your homeschooled student may end up finishing in less time.

**Correcting & Reworking Problems:** In addition to encouraging your student to consistently produce neat and properly formatted math work, generally speaking you should also establish the habit of correcting the work as soon as the student has completed it. You will use the Practice Book Answer files downloaded from the MEP website. The student should then rework any incorrect problems. You can give hints as needed but the practice reworking and correctly solving the missed problems is an important part of a high-quality math education.

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