

# Grade 5

## MEP Math

### Organization Guide

#### IMPORTANT NOTES

**MEP Math Year 6:** You will be using the MEP Math Year 6 curriculum for Fifth Grade. MEP is a European math curriculum and the concepts taught in Year 6 are equivalent to the concepts commonly taught in the U.S. during Fifth 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 Fourth 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 of 10x10 multiplication facts
- Find fractions of quantities, understand equivalent fractions, and add and subtract fractions in context
- Be able to multiply fractions by whole numbers
- Understand decimal equivalents to fractions using tenths and hundreds; be able to convert simple fractions to and from percentages and decimals
- Add, subtract, multiply, and divide decimal numbers (division by whole numbers)
- Understand factors and multiple; be able to express a whole number in terms of its prime factors
- Round numbers to nearest 10, 100, 1000
- Recognize and understand concave shapes, convex shapes, parallel lines, and perpendicular lines.
- Find perimeter and area of 2D shapes in fractions, decimals, or whole numbers; understand concepts of symmetry and congruence
- Find surface area and volume of 3D shapes
- Work with negative numbers including ordering, using a number line, and the meaning of negative numbers in context (e.g. thermometer or sea level)

- Perform simple calculations using negative numbers including addition and subtraction as well as multiplication by of a positive number by a negative number
- Understand and use both a 12-hour and 24-hour clock
- Understand the concept of speed
- Use a Venn diagram to classify a set of numbers

## FREE RESOURCES

**How-to Videos:** Watch the videos to learn to use the MEP Math curriculum to homeschool: <https://bit.ly/3FM8UZV>

**Daily Schedule:** A free daily schedule for homeschooling Fifth Grade using the Core Knowledge curriculum and MEP Math curriculum is available here: <https://bit.ly/3rui1t6>

## PRIMARY MATERIALS PREPARATION INSTRUCTIONS

**Lesson Plans:** There are 6 sets of lesson plans for Year 6 and these make up the teacher's guide for the curriculum. The lesson plans are broken up into part A and part B and 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 6 and these are the worksheets for the curriculum. The practice book is broken up into part A and part B and 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 6. 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 into part A and part B and 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, LP15/3 refers to Lesson Plan 15, Activity 3.

- Print all six files copymaster files for Year 6 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 6, page 54”** 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.

**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 you may find working one on one with your student is more efficient.

**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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