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# LIGHT BLUE SERIES BOOKS

*Math Mammoth Light Blue Series* constitutes a full elementary mathematics curriculum for grades 1-7.

Some of the main features of the curriculum are:

- It is mastery oriented, concentrating fairly long on one topic, with fairly few topics per grade;
- It focuses on conceptual understanding.
- Visual models and exercises are used a lot.
- Mental math and number sense are emphasized.
- The curriculum is nearly self-teaching for many children, since the explanations of concepts are found in the student worktext. Thus it requires fairly little preparation time from the teacher.
- The curriculum meets and exceeds the Common Core Standards.

Each grade level in the curriculum consists of two student worktexts (A and B) which contain both the teaching (explanations) and all the student work (exercises), answer keys, tests, cumulative review lessons, and a versatile worksheet maker (Internet access required).

Additionally, the download version of the curriculum includes an additional worksheet maker (Internet access required), and the money chapter in grades 1, 2, and 3 is available for U.S., Canadian, British, European, and Australian money.

South African version is also available for grades 1-5. Please see [http://www.mathmammoth.com/south\\_africa/](http://www.mathmammoth.com/south_africa/)

## Placement

It is fairly important that you have your student(s) take a placement test or several prior to introducing the student to Math Mammoth. Placement tests (which are end-of-year tests for the specific grade levels) are available for free here:

[http://www.mathmammoth.com/complete/placement\\_tests.php](http://www.mathmammoth.com/complete/placement_tests.php)



## Package deals

1. A discounted bundle of all the grades (1-7), available as a download and as a CD.
2. A discounted bundle of grades 1-3, available as a download and as a CD.
3. A discounted bundle of grades 4-7, available as a download and as a CD.

Learn more at <http://www.mathmammoth.com/packages.php>

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# the Light BLUE Series

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*"Dear Maria,*

*We tried the samples with our oldest (of three children) and liked them so much that we purchased the grades 1-3 bundle on Currclick.*

*It's hard to know where to begin with thanking you. Your website, blog, and videos are rich resources. The samples alone would have been a great help. The seven-day tour is a great idea. I'm really impressed with all that you offer to parents and teachers.*

*I love the format. No more juggling a bulky Teacher Manual or making copies or complicated planning. My oldest is only six, so I sit with her, but the format of Math Mammoth really eases the organization and planning. She enjoys being able to read the lesson and do as much as she can with me close by to help.*

*You have given us a wonderful resource. Thank you again."*

*Sincerely,  
Sarah*

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## MATH MAMMOTH GRADE 1 COMPLETE CURRICULUM

*Math Mammoth Grade 1 Complete Curriculum* is a complete math program for 1st grade that is aligned to the Common Core Standards. It consists of two student worktexts (A and B), a separate answer key for each, tests, cumulative reviews, and in the download version, an additional worksheet maker (Internet access required) to make extra practice worksheets when needed.

### The four main areas of study for first grade are:

1. The concepts of addition and subtraction, and strategies for addition & subtraction facts (chapters 1-2; chapter 4);
2. Developing understanding of whole number relationships and place value till 100 (chapter 3 and chapter 7);
3. Developing understanding of measuring lengths as iterating length units (chapter 6); and
4. Reasoning about attributes of geometric shapes, such as the number of sides and the number of corners, and composing and decomposing geometric shapes (chapter 6).

Additional topics we study in first grade are clock to the half hour (chapter 5) and counting coins (chapter 8).

### Some main features of Math Mammoth complete curriculum (Light Blue series) are:

- focuses on understanding of mathematical concepts
- uses clear explanations, lots of visual exercises and pattern exercises
- mastery oriented: concentrates fairly long on a topic, with fairly few topics per grade
- emphasizes mental math and developing number sense
- very little teacher preparation needed

SAMPLES PAGES, ORDERING INFORMATION, AND COMMON CORE ALIGNMENT:

[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_1.PHP](http://www.mathmammoth.com/complete/grade_1.php)

### Additional features for the download version

The downloadable version includes a worksheet maker (Internet access required) that lets you make extra practice worksheets for many of the topics in the curriculum.

In the download version, the chapter on coins (chapter 8) is included in five currencies: US, Canadian, British, European, and Australian money. You will automatically get all versions when you buy the Grade 1 Complete Curriculum or the 1-B part as a DOWNLOAD.

The PDFs in the download version are enabled for annotation. This means that if you prefer, your student can fill them in on the computer, using the typewriter and drawing tools in Acrobat Reader version 9 or greater.

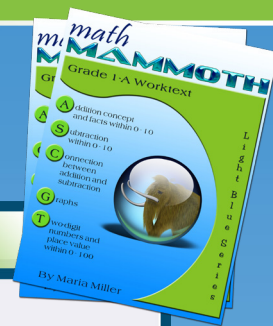
BONUS! If you purchase the download version in Kagi store, you will also get Soft-Pak programs completely FREE. The 6 programs in Soft-Pak (4 math, 1 language arts, 1 list maker) offer both on-screen and printable activities in a low-graphic, high content format.

### Manipulatives

Here is a list of manipulatives that are needed or recommended for grade 1:

1. A 100-bead abacus (for 1-A and 1-B; especially the chapter on place value and chapter 7)  
Please read more about the 100-bead abacus on the FAQ page.
2. An old-fashioned alarm clock or other analog clock where you can turn the minute hand and the hour hand will turn as it is supposed to (for 1-B).
3. A ruler that measures in inches (for 1-B).
4. A ruler that measures in centimeters (for 1-B).

# GRADE 1



## MATH MAMMOTH GRADE 1 COMPLETE CURRICULUM

### GRADE 1-A

- ADDITION CONCEPT AND FACTS WITHIN 0-10
- SUBTRACTION WITHIN 0-10
- CONNECTION BETWEEN ADDITION AND SUBTRACTION
- GRAPHS
- TWO DIGIT NUMBERS AND PLACE VALUE WITHIN 0-100

### GRADE 1-B

- ADDITION AND SUBTRACTION FACTS WITHIN 0-10
- CLOCK AND CALENDAR
- SHAPES AND MEASURING
- ADDING AND SUBTRACTING WITHIN 0-100
- COUNTING COINS

### INCLUDES

- 145 PAGES
- 129 LESSON PAGES
- PART A WORKTEXT
- PART A ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

- 144 PAGES
- 125 LESSON PAGES
- PART B WORKTEXT
- PART B ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

### AVAILABLE AS

#### DOWNLOADS

- FULL SET FOR GRADE 1 - \$37.50
- GRADE 1-A ONLY - \$18.75
- GRADE 1-B ONLY - \$18.75

#### CD

- FULL SET FOR GRADE 1 - \$42.50

#### PRINTED COPIES

- TWO STUDENT BOOKS, ONE ANSWER KEY BOOK, AND ONE CUMULATIVE REVIEWS & TESTS BOOK. PRICES VARY.



SAMPLE PAGES AND ORDERING INFORMATION:  
[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_1.PHP](http://www.mathmammoth.com/complete/grade_1.php)

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## MATH MAMMOTH GRADE 2 COMPLETE CURRICULUM

Math Mammoth Grade 2 Complete Curriculum is a complete math program for 2nd grade. It consists of two student worktexts (A and B), a separate answer key for each, tests, cumulative reviews, and in the download version, an additional worksheet maker (Internet access required) to make extra practice worksheets when needed.

### The four main areas of study for second grade are:

1. Understanding of the base-ten system within 1000. This includes place value with three-digit numbers, skip-counting in fives, tens, and multiples of hundreds, tens, and ones (within 1000). (chapters 6 and 8);
2. Develop fluency with addition and subtraction within 100, including solving word problems, regrouping in addition, and regrouping in subtraction (chapters 1, 3, 4, and 8);
3. Using standard units of measure (chapter 7);
4. Describing and analyzing shapes (chapter 5).

Additional topics we study are time/clock (chapter 2), money (chapter 9), introduction to multiplication (chapter 10), and bar graphs and picture graphs (in various chapters).

### Some main features of Math Mammoth complete curriculum (Light Blue series) are:

- focuses on understanding of mathematical concepts
- uses clear explanations, lots of visual exercises and pattern exercises
- mastery oriented: concentrates fairly long on a topic, with fairly few topics per grade
- emphasizes mental math and developing number sense
- very little teacher preparation needed

SAMPLES PAGES, ORDERING INFORMATION, AND COMMON CORE ALIGNMENT:

[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_2.PHP](http://www.mathmammoth.com/complete/grade_2.php)

### Additional features for the download version

The downloadable version includes a worksheet maker (Internet access required) that lets you make extra practice worksheets for many of the topics in the curriculum.

In the download version, the chapter on coins (chapter 9) is included in five currencies: US, Canadian, British, European, and Australian money. You will automatically get all versions when you buy the Grade 2 Complete Curriculum or the 2-B part as a DOWNLOAD.

The PDFs in the download version are enabled for annotation. This means that if you prefer, your student can fill them in on the computer, using the typewriter and drawing tools in Acrobat Reader version 9 or greater.

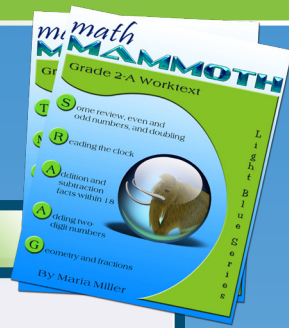
**BONUS!** If you purchase the download version in Kagi store, you will also get Soft-Pak programs completely FREE. The 6 programs in Soft-Pak (4 math, 1 language arts, 1 list maker) offer both on-screen and printable activities in a low-graphic, high content format.

### Manipulatives

Here is a list of manipulatives that are needed or recommended for grade 2:

1. An old-fashioned alarm clock or other analog clock where you can turn the minute hand and the hour hand.
2. A ruler that measures in inches (for 2-B).
3. A ruler that measures in centimeters (for 2-B).
4. A bathroom scales. It is best if you can have one that measures in pounds and in kilograms
5. Base ten blocks to illustrate place value with hundreds (optional).
6. A 100-bead abacus (optional)

# GRADE 2



## MATH MAMMOTH GRADE 2 COMPLETE CURRICULUM

### GRADE 2-A

- SOME REVIEW, EVEN AND ODD NUMBERS, AND DOUBLING
- READING THE CLOCK
- ADDITION AND SUBTRACTION FACTS WITHIN 18
- ADDING TWO-DIGIT NUMBERS
- GEOMETRY AND FRACTIONS

### GRADE 2-B

- THREE-DIGIT NUMBERS
- MEASURING
- REGROUPING IN ADDITION AND SUBTRACTION
- MONEY
- INTRODUCTION TO MULTIPLICATION

### INCLUDES

- 158 PAGES
- 133 LESSON PAGES
- PART A WORKTEXT
- PART A ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

- 163 PAGES
- 148 LESSON PAGES
- PART B WORKTEXT
- PART B ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

### AVAILABLE AS

#### DOWNLOADS

- FULL SET FOR GRADE 2 - \$37.50
- GRADE 2-A ONLY - \$18.75
- GRADE 2-B ONLY - \$18.75

#### CD

- FULL SET FOR GRADE 2 - \$42.50

#### PRINTED COPIES

- TWO STUDENT BOOKS, ONE ANSWER KEY BOOK, AND ONE CUMULATIVE REVIEWS & TESTS BOOK. PRICES VARY.



SAMPLE PAGES AND ORDERING INFORMATION:  
[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_2.PHP](http://www.mathmammoth.com/complete/grade_2.php)

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## MATH MAMMOTH GRADE 3 COMPLETE CURRICULUM

*Math Mammoth Grade 3 Complete Curriculum* is a complete math program for 3rd grade. It consists of two student worktexts (A and B), a separate answer key for each, tests, cumulative reviews, and in the download version, an additional worksheet maker (Internet access required) to make extra practice worksheets when needed.

Third grade is a time for learning and mastering two (mostly new) operations: multiplication and division within 100. The student also deepens his understanding of addition and subtraction, and uses those in many different contexts, such as with money, time, and geometry.

### The main areas of study in Math Mammoth Grade 3 are:

1. Students develop an understanding of multiplication and division of whole numbers through problems involving equal-sized groups, arrays, and area models. They learn the relationship between multiplication and division, and solve many word problems involving multiplication and division. They learn the multiplication tables, and learn how to use their knowledge of multiplication tables to solve basic division facts.
2. Students develop an understanding of fractions, beginning with unit fractions. They use fractions along with visual fraction models and on a number line. They also compare fractions by using visual fraction models and strategies based on noticing equal numerators or denominators (chapter 10).
3. Students learn the concepts of area and perimeter. They relate area to multiplication and to addition, recognize perimeter as a linear measure (in contrast with area), and solve problems involving area and perimeter (chapter 7).
4. Students fluently add and subtract within 1,000, both mentally and in columns (with regrouping). They learn to add and subtract 4-digit numbers, and use addition and subtraction in problem solving (chapters 1 and 6).

### Some main features of Math Mammoth complete curriculum (Light Blue series) are:

- focuses on understanding of mathematical concepts
- uses clear explanations, lots of visual exercises and pattern exercises
- mastery oriented: concentrates fairly long on a topic, with fairly few topics per grade
- emphasizes mental math and developing number sense
- very little teacher preparation needed

SAMPLES PAGES, ORDERING INFORMATION, AND COMMON CORE ALIGNMENT:

[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_3.PHP](http://www.mathmammoth.com/complete/grade_3.php)

### Manipulatives

Here is a list of manipulatives that are needed or recommended for grade 3. Measuring tapes, scales, and measuring cups are only used in the measuring chapter.

1. An old-fashioned alarm clock or other analog clock where you can turn the minute hand and the hour hand will turn as it is supposed to (optional; for 3-A).
2. A ruler that measures in inches (for 3-B).
3. A ruler that measures in centimeters (for 3-B).
4. A measuring tape that measures in feet (for 3-B).
5. A measuring tape that measures in meters (for 3-B).
6. A kitchen scales that measures in ounces (for 3-B).
7. A kitchen scales that measures in grams (for 3-B).
8. A measuring cup that measures 1 cup (for 3-B), a pint jar, and a quart jar.
9. A measuring cup that measures in milliliters (for 3-B).
10. Fraction manipulatives. The curriculum contains printables to make your own fraction manipulatives. The text uses visual pie models extensively, and students even learn to draw them themselves for the exercises, therefore making or buying the manipulatives is entirely optional (optional; for 3-B).



# GRADE 3



## MATH MAMMOTH GRADE 3 COMPLETE CURRICULUM

### GRADE 3-A

- ADDITION AND SUBTRACTION
- MULTIPLICATION CONCEPT
- MULTIPLICATION TABLES
- CLOCK
- MONEY

### GRADE 3-B

- PLACE VALUE WITH THOUSANDS
- GEOMETRY
- MEASURING
- DIVISION
- FRACTIONS

### INCLUDES

- 183 PAGES
- 163 LESSON PAGES
- PART A WORKTEXT
- PART A ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

- 180 PAGES
- 158 LESSON PAGES
- PART B WORKTEXT
- PART B ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

### AVAILABLE AS

#### DOWNLOADS

- FULL SET FOR GRADE 3 - \$37.50
- GRADE 3-A ONLY - \$18.75
- GRADE 3-B ONLY - \$18.75

#### CD

- FULL SET FOR GRADE 3 - \$42.50

#### PRINTED COPIES

- TWO STUDENT BOOKS, ONE ANSWER KEY BOOK, AND ONE CUMULATIVE REVIEWS & TESTS BOOK. PRICES VARY.



SAMPLE PAGES AND ORDERING INFORMATION:

[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_3.PHP](http://www.mathmammoth.com/complete/grade_3.php)

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## MATH MAMMOTH GRADE 4 COMPLETE CURRICULUM

*Math Mammoth Grade 4 Complete Curriculum* is a complete math program for 4th grade. It consists of two student worktexts (A and B), a separate answer key for each, tests, cumulative reviews, and in the download version, an additional worksheet maker (Internet access required) to make extra practice worksheets when needed.

In the fourth grade, students focus on multi-digit multiplication and division, learning to use bigger numbers, solving multi-step word problems that involve several operations, and they get started in studying fractions and decimals. This is of course accompanied by studies in geometry and measuring.

The year starts out with a review of addition and subtraction, patterns, and graphs. We illustrate word problems with bar diagrams and study finding missing addends, which teaches algebraic thinking. Children also learn addition and subtraction terminology, the order of operations, and statistical graphs.

Next come large numbers—up to millions, and the place value concept. At first the student reviews thousands and some mental math with them. Next are presented numbers up to one million, calculations with them, the concept of place value and comparing. In the end of the chapter we find out more about millions and an introduction to multiples of 10, 100, and 1000.

The third chapter is all about multiplication. After briefly reviewing the concept and the times tables, the focus is on learning multi-digit multiplication (multiplication algorithm). The children also learn why it works when they multiply in parts. We also study the order of operations again, touch on proportional reasoning, and do more money and change related word problems.

The last chapter in part A is about time, temperature, length, weight, and volume. Students will learn to solve more complex problems using various measuring units and to convert between measuring units.

In part B, we first study division. The focus is on learning long division and using division in word problems. In geometry, we first review area and perimeter, and then concentrate on the topic of angles. Students measure and draw angles, solve simple angle problems, and classify triangles according to their angles. They also study parallel and perpendicular lines.

Fractions and decimals are presented last in the school year. These two chapters practice only some of the basic operations with fractions and decimals. The focus is still on conceptual understanding and on building a good foundation towards 5th grade math, where fractions and decimals will be in focus.

### Some main features of Math Mammoth complete curriculum (Light Blue series) are:

- focuses on understanding of mathematical concepts
- uses clear explanations, lots of visual exercises and pattern exercises
- mastery oriented: concentrates fairly long on a topic, with fairly few topics per grade
- emphasizes mental math and developing number sense
- very little teacher preparation needed

SAMPLES PAGES, ORDERING INFORMATION, AND COMMON CORE ALIGNMENT:

[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_4.PHP](http://www.mathmammoth.com/complete/grade_4.php)

### Manipulatives

Here is a list of manipulatives that are needed or recommended for grade 4. Measuring tapes are only used in the measuring chapter.

1. A ruler that measures in inches (for 4-A and 4-B).
2. A ruler that measures in centimeters (for 4-A and 4-B).
3. A measuring tape that measures in feet (for 4-A).
4. A measuring tape that measures in meters (for 4-A).

# GRADE 4



## MATH MAMMOTH GRADE 4 COMPLETE CURRICULUM

### GRADE 4-A

- ADDITION, SUBTRACTION, PATTERNS, AND GRAPHS
- LARGE NUMBERS
- MULTI-DIGIT MULTIPLICATION
- TIME AND MEASURING

### GRADE 4-B

- DIVISION
- GEOMETRY
- FRACTIONS
- DECIMALS

### INCLUDES

- 198 PAGES
- 180 LESSON PAGES
- PART A WORKTEXT
- PART A ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

- 192 PAGES
- 173 LESSON PAGES
- PART B WORKTEXT
- PART B ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

### AVAILABLE AS

#### DOWNLOADS

- FULL SET FOR GRADE 4 - \$37.50
- GRADE 4-A ONLY - \$18.75
- GRADE 4-B ONLY - \$18.75

#### CD

- FULL SET FOR GRADE 4 - \$42.50

#### PRINTED COPIES

- TWO STUDENT BOOKS, ONE ANSWER KEY BOOK, AND ONE CUMULATIVE REVIEWS & TESTS BOOK. PRICES VARY.



SAMPLE PAGES AND ORDERING INFORMATION:  
[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_4.PHP](http://www.mathmammoth.com/complete/grade_4.php)

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## MATH MAMMOTH GRADE 5 COMPLETE CURRICULUM

*Math Mammoth Grade 5 Complete Curriculum* is a complete math program for 5th grade. It consists of two student worktexts (A and B), a separate answer key for each, tests, cumulative reviews, and in the download version, an additional worksheet maker (Internet access required) to make extra practice worksheets when needed.

The two books (worktext part A and part B) deal with

- the four operations with whole numbers
- place value with large numbers and the judicious use of calculator
- problem solving & simple equations
- decimal arithmetic (all operations with decimals)
- statistics and graphing
- fraction arithmetic (all operations with fractions; fraction division is only dealt with in special cases)
- geometry: review of angles, area, and perimeter; drawing circles; classifying triangles & quadrilaterals; volume of rectangular prisms

**Some main features of Math Mammoth complete curriculum (Light Blue series) are:**

- focuses on understanding of mathematical concepts
- uses clear explanations, lots of visual exercises and pattern exercises
- mastery oriented: concentrates fairly long on a topic, with fairly few topics per grade
- emphasizes mental math and developing number sense
- very little teacher preparation needed

SAMPLES PAGES, ORDERING INFORMATION, AND COMMON CORE ALIGNMENT:  
[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_5.PHP](http://www.mathmammoth.com/complete/grade_5.php)

### Math Mammoth grade 5 and Common Core Standards

Math Mammoth Grade 5 Mammoth slightly exceeds the Common Core Standards. Please see more details at <http://www.mathmammoth.com/faq-common-core.php#3e>

### Additional features for the download version

The downloadable version includes a worksheet maker (Internet access required) that lets you make extra practice worksheets for many of the topics in the curriculum.

The PDFs in the download version are enabled for annotation. This means that if you prefer, your student can fill them in on the computer, using the typewriter and drawing tools in Acrobat Reader version 9 or greater.

**BONUS!** If you purchase the download version in Kagi store, you will also get Soft-Pak programs completely FREE. The 6 programs in Soft-Pak (4 math, 1 language arts, 1 list maker) offer both on-screen and printable activities in a low-graphic, high content format.

# GRADE 5



## MATH MAMMOTH GRADE 5 COMPLETE CURRICULUM

### GRADE 5-A

- THE FOUR OPERATIONS
- LARGE NUMBERS AND THE CALCULATOR
- PROBLEM SOLVING
- DECIMALS

### GRADE 5-B

- GRAPHING AND STATISTICS
- FRACTIONS: ADD AND SUBTRACT
- FRACTIONS: MULTIPLY AND DIVIDE
- GEOMETRY

### INCLUDES

- 208 PAGES
- 170 LESSON PAGES
- PART A WORKTEXT
- PART A ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

- 201 PAGES
- 176 LESSON PAGES
- PART B WORKTEXT
- PART B ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

### AVAILABLE AS

#### DOWNLOADS

- FULL SET FOR GRADE 5 - \$37.50
- GRADE 5-A ONLY - \$18.75
- GRADE 5-B ONLY - \$18.75

#### CD

- FULL SET FOR GRADE 5 - \$42.50

#### PRINTED COPIES

- TWO STUDENT BOOKS, ONE ANSWER KEY BOOK, AND ONE CUMULATIVE REVIEWS & TESTS BOOK. PRICES VARY.



SAMPLE PAGES AND ORDERING INFORMATION:  
[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_5.PHP](http://www.mathmammoth.com/complete/grade_5.php)

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## MATH MAMMOTH GRADE 6 COMPLETE CURRICULUM

*Math Mammoth Grade 6 Complete Curriculum* is a complete math program for 6th grade. It consists of two student worktexts (A and B), a separate answer key for each, tests, cumulative reviews, and in the download version, an additional worksheet maker (Internet access required) to make extra practice worksheets when needed.

### The two books (worktext part A and part B) deal with

- review of the basic operations with whole numbers
- beginning algebra topics: expressions, equations, and inequalities
- review of all decimal arithmetic
- introduction to ratios and percent
- prime factorization, GCF, and LCM
- a review of fraction arithmetic from 5th grade, plus a focus on division of fractions
- the concept of integers, coordinate grid, addition & subtraction of integers
- geometry: review of quadrilaterals & drawing problems; area of triangles & polygons; volume of rectangular prisms with fractional edge lengths; surface area
- statistics: concept of distribution, measures of center, measures of variation, boxplots, stem-and-leaf plots, histograms

### Some main features of Math Mammoth complete curriculum (Light Blue series) are:

- focuses on understanding of mathematical concepts
- uses clear explanations, lots of visual exercises and pattern exercises
- mastery oriented: concentrates fairly long on a topic, with fairly few topics per grade
- emphasizes mental math and developing number sense
- very little teacher preparation needed

SAMPLES PAGES, ORDERING INFORMATION, AND COMMON CORE ALIGNMENT:  
[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_6.PHP](http://www.mathmammoth.com/complete/grade_6.php)

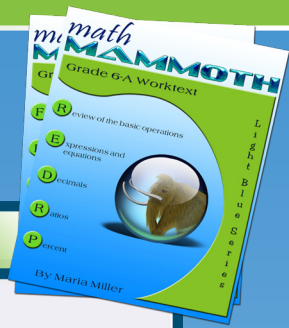
### Additional features for the download version

The downloadable version includes a worksheet maker (Internet access required) that lets you make extra practice worksheets for many of the topics in the curriculum.

The PDFs in the download version are enabled for annotation. This means that if you prefer, your student can fill them in on the computer, using the typewriter and drawing tools in Acrobat Reader version 9 or greater.

BONUS! If you purchase the download version in Kagi store, you will also get Soft-Pak programs completely FREE. The 6 programs in Soft-Pak (4 math, 1 language arts, 1 list maker) offer both on-screen and printable activities in a low-graphic, high content format.

# GRADE 6



## MATH MAMMOTH GRADE 6 COMPLETE CURRICULUM

### GRADE 6-A

- REVIEW OF THE BASIC OPERATIONS
- EXPRESSIONS AND EQUATIONS
- DECIMALS
- RATIOS
- PERCENT

### GRADE 6-B

- FACTORING
- FRACTIONS
- INTEGERS
- GEOMETRY
- STATISTICS

### INCLUDES

- 189 PAGES
- 170 LESSON PAGES
- PART A WORKTEXT
- PART A ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

- 178 PAGES
- 153 LESSON PAGES
- PART B WORKTEXT
- PART B ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

### AVAILABLE AS

#### DOWNLOADS

- FULL SET FOR GRADE 6 - \$37.50
- GRADE 6-A ONLY - \$18.75
- GRADE 6-B ONLY - \$18.75

#### CD

- FULL SET FOR GRADE 6 - \$42.50

#### PRINTED COPIES

- TWO STUDENT BOOKS, ONE ANSWER KEY BOOK, AND ONE CUMULATIVE REVIEWS & TESTS BOOK. PRICES VARY.



SAMPLE PAGES AND ORDERING INFORMATION:

[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_6.PHP](http://www.mathmammoth.com/complete/grade_6.php)

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## MATH MAMMOTH GRADE 7 COMPLETE CURRICULUM

*Math Mammoth Grade 7 Complete Curriculum* is a complete pre-algebra program for 7th grade. It consists of two student worktexts (A and B), a separate answer key for each, tests, cumulative reviews, and in the download version, an additional worksheet maker (Internet access required) to make extra practice worksheets when needed.

### The two books (worktext part A and part B) deal with

- introduction to basic algebra concepts
- integers and their operations
- solving one-step equations, including with negative numbers
- operations with negative rational numbers
- solving linear equations and writing equations for word problems
- graphing linear equations and an introduction to the concept of slope
- ratios, rates, proportions, and percent
- geometry: angle relationships, compass & ruler constructions, drawing problems, Pi and the area and circumference of a circle, cross-sections formed when cutting solids, surface area, and volume
- the Pythagorean theorem
- probability
- statistics

### Some main features of Math Mammoth complete curriculum (Light Blue series) are:

- focuses on understanding of mathematical concepts
- uses clear explanations, lots of visual exercises and pattern exercises
- mastery oriented: concentrates fairly long on a topic, with fairly few topics per grade
- emphasizes mental math and developing number sense
- very little teacher preparation needed

SAMPLES PAGES, ORDERING INFORMATION, AND COMMON CORE ALIGNMENT:  
[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_7.PHP](http://www.mathmammoth.com/complete/grade_7.php)

### Additional features for the download version

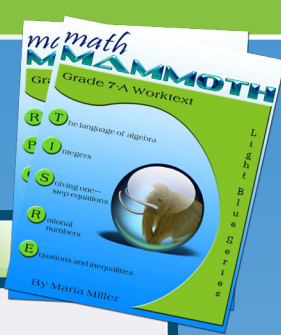
The downloadable version includes a worksheet maker (Internet access required) that lets you make extra practice worksheets for many of the topics in the curriculum.

The PDFs in the download version are enabled for annotation. This means that if you prefer, your student can fill them in on the computer, using the typewriter and drawing tools in Acrobat Reader version 9 or greater.

BONUS! If you purchase the download version in Kagi store, you will also get Soft-Pak programs completely FREE. The 6 programs in Soft-Pak (4 math, 1 language arts, 1 list maker) offer both on-screen and printable activities in a low-graphic, high content format.



# GRADE 7



## MATH MAMMOTH GRADE 7 COMPLETE CURRICULUM

### GRADE 7-A

- ALGEBRA CONCEPTS
- INTEGERS
- SOLVING ONE-STEP EQUATIONS
- RATIONAL NUMBERS
- EQUATIONS AND INEQUALITIES

### GRADE 7-B

- RATIOS, PROPORTIONS AND PERCENT
- GEOMETRY
- PYTHAGOREAN THEOREM
- STATISTICS AND PROBABILITY

### INCLUDES

- 227 PAGES
- 201 LESSON PAGES
- PART A WORKTEXT
- PART A ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

- 292 PAGES
- 258 LESSON PAGES
- PART B WORKTEXT
- PART B ANSWER KEY
- TESTS
- CUMULATIVE REVIEWS
- WORKSHEET MAKER
- SOFT-PAK

### AVAILABLE AS

#### DOWNLOADS

- FULL SET FOR GRADE 7 - \$37.50
- GRADE 7-A ONLY - \$18.75
- GRADE 7-B ONLY - \$18.75

#### CD

- FULL SET FOR GRADE 7 - \$42.50

#### PRINTED COPIES

- TWO STUDENT BOOKS, ONE ANSWER KEY BOOK, AND ONE CUMULATIVE REVIEWS & TESTS BOOK. PRICES VARY.



SAMPLE PAGES AND ORDERING INFORMATION:

[HTTP://WWW.MATHMAMMOTH.COM/COMPLETE/GRADE\\_7.PHP](http://www.mathmammoth.com/complete/grade_7.php)

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# LIGHT BLUE SERIES FAQ

## 1. DO YOU HAVE PLACEMENT / DIAGNOSTIC TESTS?

Yes. Simply visit this page for placement tests for all the grade-levels:

[http://www.mathmammoth.com/complete/placement\\_tests.php](http://www.mathmammoth.com/complete/placement_tests.php)

## 2. IS THERE A TEACHER'S MANUAL?

No. This curriculum does not contain a separate teacher's manual nor scripted lessons. The student worktext contains in the text itself explanations of the concepts, and I've tried to create a text that is as self-explanatory as possible. Students will often be able to read and study through the lessons on their own. The parent can "get it" at the same time as the student, if they have not understood math concepts before.

Also, in the beginning of each chapter there are some general notes and helps for the teacher (Introduction).

If you have previously used a scripted curriculum and are worried about your ability to teach with Math Mammoth, I would encourage you to try it out by purchasing one of the Blue Series topical books.

## 3a. ARE THERE PRINTED VERSIONS AVAILABLE?

Yes. The books are available as paperbacks through Lulu.com and at Rainbow Resource Center. The inside pages are black-and-white (or grayscale) (not full color) because full color publishing is fairly costly. On each grade level's webpage you will also find a direct link to these two stores (probably easier to use).

## 3b. CAN WE BUY THE DOWNLOADS AND THEN TAKE THEM TO A KINKO'S OR STAPLES TYPE PLACE TO HAVE THE BOOK PRINTED UP AND BOUND NICELY?

Sure. Just remember the copyright notice: the person who owns the book(s) is allowed to make copies (whether by Kinko's printer or some other printer) to HIS / HER students, but not to other teacher's students. You can also use online printing services such as Mimeo.com or Bestvaluecopy.com. However, color printing can be expensive no matter where you do it.

## 3c. I HESITATE TO BUY MM BECAUSE I CAN'T PRINT IN COLOR. ANY SUGGESTIONS?

- 1) Print in b&w, but let the child color the boxes the problems are in, using crayons.
- 2) Utilize the online games recommended in the notes for each chapter for the "color" (so to speak). It works for some!

## 4. CAN I BUY IT ON A CD?

Yes. You can purchase each of the grade levels of the Light Blue series on a CD at [Kagi store](#) or at [Rainbow Resource Center](#). You can buy all available grade levels on one CD at [Kagi](#), [Rainbow Resource Center](#), Homeschool Buyers Co-op or Educents (at special sales).

## 4b. IS THERE ANY ADVANTAGE FOR BUYING THE CURRICULUM ON A CD?

Usually no, because the CD contains the exact same files as the download. Also, if you purchase a download, you may make a backup copy of the files on a CD or on a flash drive.

However, a CD is a good option if you cannot download large files. Some people may prefer a CD so they can resell it or so as to not lose track where the files are stored. Even if you purchase a CD, I recommend you make a backup copy, because CDs do not last forever.

## 4c. DOES IT WORK ON A MAC OR LINUX?

Yes. The actual files you get are PDF or html files. You will need to install Adobe Acrobat Reader for Mac or for Linux to view the PDF files correctly. I've had customers tell me that Mac's native PDF viewer shows black boxes in the files, or that lots of the graphics are missing. In Linux, if you use other PDF viewers, some images will likely be missing or messed up, so again, you need to install Acrobat Reader version for Linux. Also, it won't matter whether you get a download or a CD. The only thing that does not work in Mac or Linux is the bonus software "Soft-Pak".



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# LIGHT BLUE SERIES FAQ

## 4d. CAN THE PDF BE FILLED IN ON THE COMPUTER OR TABLET DEVICE (IPAD OR SIMILAR)?

Yes, it can. The PDF files are enabled for annotating. This means that if you prefer, the student can fill the math books in on the computer or tablet device using annotating tools in a PDF application.

On a computer, use Adobe Reader version 9 or greater. It has typewriter and drawing tools.

For iPad, there exist several PDF apps that have annotating tools and work well for Math Mammoth files: [PDF Expert](#) (\$9.99), [Goodreader](#) (\$2.99), and [iAnnotatePDF](#) (\$9.99). You can add text, lines, and shapes, or use a stylus to write. The apps neu. AnnotatePDF (\$1.99) and Notability (\$2.99) work also, but are not as user-friendly as the other three.

Adobe Reader app for iPad (free) unfortunately does not allow annotating protected PDF files (such as I have to use with Math Mammoth). So, you cannot write into the PDF on your iPad with Adobe Reader (Adobe Reader for PC and Mac works great though.)

## 5. WHAT IS A WORKTEXT?

Worktext means that the book contains both the “text” (= the explanations) and the “work” (= the problems). Simply put, the textbook and problems are in the same book. This is especially useful for homeschooling and for any kind of independent study.

## 6. WHAT IS THE DIFFERENCE BETWEEN THE BLUE SERIES AND LIGHT BLUE SERIES?

These two series have nearly the same lesson material. There are only a few lessons here and there that are in one series but not in the other.

The main difference is in how the material is organized. The Light Blue Series goes by grades and being a complete curriculum also includes tests & cumulative reviews. The Blue Series consists of topical worktexts, and the material in each book usually spans 2-3 grade levels.

So, which series you choose depends on your goals: Do you wish to have a complete curriculum for a given grade level? Go Light Blue. Do you wish to review or reteach only certain topics? Choose Blue. Do you want to cover all topics as in a full curriculum but without mentions of grade levels? Blue Series can work there as well.

## 7. ARE EARLIER CONCEPTS REVIEWED IN LATER LEVELS?

To some extent, yes, but not so much as in a typical spiral curriculum. For example, I often introduce somewhat difficult topics in two grades. A few topics are “introductory” in one grade and “in focus” in the next. For example:

- Addition where the result goes over 10 (such as  $6 + 8$ ) is included in the last half of 1st grade and first half of 2nd grade.
- Regrouping in subtraction is studied both in 2nd and 3rd (mostly in 2nd).
- The concept of multiplication is introduced in the very end of 2nd grade but studied in depth in 3rd.
- Multi-digit multiplication is studied in length in the 4th grade, and studied once more in 5th (5-A).
- Similarly, long division is studied both in 4th and 5th.
- Decimals are introduced in 4th grade, then studied in-depth in 5th, and reviewed in 6th.
- Fractions are introduced in 2nd and 3rd grades, and studied some more in 4th. In 5th grade, they are in “focus”. Then they are reviewed in 6th grade.

Topics such as place value, measuring units, geometry, clock, and money are covered over several years in a spiraling style.

The following topics are not reviewed much in later levels (mastery is expected): single-digit addition and subtraction after 1st grade, double-digit addition and subtraction after 2nd, and reading the clock and counting coins after 3rd grade. The multiplication tables and basic division facts receive a quick review in 4th grade but not after that.



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# LIGHT BLUE SERIES FAQ

## 8. I AM CONCERNED THAT THERE WON'T BE ENOUGH REVIEW. DO YOUR BOOKS HAVE REVIEW PROBLEMS THAT CONTINUE TO REVIEW PREVIOUS CONCEPTS?

The program includes mixed review lessons (one near the end of each chapter) and additional (separate) cumulative review lessons that you can use when needed. Both of these cover a mix of topics that have already been studied.

You can also use the worksheet maker to generate additional worksheets for practice. This worksheet generator requires an Internet access. If you don't have Internet at home, you can use it in an Internet cafe, public library, or at a friend's house, and save the worksheets on a flash drive to print later.

Also, all the major concepts, such as addition, subtraction, multiplication, division, decimals, and fractions get reviewed in a sense because they are used all the time. For example, a child will keep using the multiplication tables when studying division and multi-digit multiplication. The student will use various addition and subtraction strategies in word problems about money and measuring and when studying place value. Division facts are used in long division.

I never make all the word problems to match the lesson exactly. By this I mean that a word problem found in a multiplication lesson might require both multiplication and addition to solve. Similarly, word problems in the other chapters (such as money, measuring, division, or fractions) will include the usage of multiplication. The word problems in the curriculum constantly use important concepts that have already been learned.

## 9. ARE TESTS INCLUDED?

Yes. There is a chapter test after each chapter and an end-of-year test to be used after each grade level.

## 10. HOW DO I PACE THE LIGHT BLUE CURRICULUM? HOW MANY PAGES OR WORKSHEETS PER DAY SHOULD THE CHILD DO?

For pacing, you can check how many actual lessons pages there are to study (this is mentioned on the web page of the book, below the cover image), and how many days of school you have in mind... then to get a "pages/day" number, divide the number of pages by the number of days. The user guide for each grade also has this information.

Assuming you do school 5 days a week, about 40 weeks a year, the student should study between 1 and 2 pages each day. If you homeschool for less than 200 days a year, you will probably get 2 or more pages a day. Please also allow some time for tests and cumulative reviews.

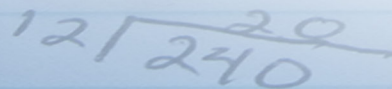
Example:

Grade level	Page count	Number of days in <i>your</i> school year	Number of days for tests and reviews	Pages to study per day	Pages to study per week
1st grade	249	200	20	1.38	6.92
2nd grade	281	200	20	1.56	7.81
3rd grade	321	200	20	1.78	8.92
4th grade	353	200	20	1.96	9.81
5th grade	346	200	24	1.97	9.83
6th grade	323	200	20	1.79	8.97
7th grade	463	200	22	2.6	13

So, as a general guideline, about 1 1/2 pages a day is sufficient for grades 1-2, about 1 3/4 pages for grade 3, and fourth, fifth, and sixth graders should aim to do 2 pages a day. However, you need to pace it depending on how the lesson goes. Sometimes you might be able to go through several pages in a day, and sometimes you cannot do but one page. Also, in some topics you might be able to go through the pages quicker, for example in the clock chapters, because the clock pictures fill the page so that one page does not have many problems.



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# LIGHT BLUE SERIES FAQ

11. HOW WILL I KNOW WHEN TO REVIEW WITH COMPUTER GAMES OR WORKSHEETS RATHER THAN CONTINUING? HOW WILL I KNOW WHEN TO TAKE A BREAK AND REVIEW AN OLD CONCEPT SO IT WILL NOT BE LOST? IS THIS TYPE OF REVIEW INCORPORATED IN THE PROGRAM?

A curriculum that “spells” out in exact detail what the teacher is to do is called a “scripted curriculum”. I simply have not had time nor the energy to build Math Mammoth to be scripted. Instead, Math Mammoth gives the teacher various tools, such as the main worktext, links to games, additional worksheets, and cumulative reviews & tests, but I have not spelled out what exactly should be done, or when, or how.

Basically, this is how you can get started. Start out using the student worktext and over the course of 1-2 weeks observe how much your child can handle daily - it might be 1-2 pages, maybe 1 1/2, maybe just 1, depending on age, maturation level, etc. Then map out your school year, and see also the answer #10 in this FAQ.

As far as when to use additional resources, I would say that when you go on with the worktext and it seems to go too quickly, then that is one SIGN that you should use additional worksheets and games.

Another sign: let's say you finish some chapter and go on. Then in the next chapter there are WORD PROBLEMS that require knowledge or concepts that were taught in the previous chapter, say multiplication or perimeter. If your child has great difficulty with those kinds of word problems, then it might be time to review the particular concept or skill. I have always striven to make the word problems progressively so that they involve concepts and skills studied in earlier chapters.

Then there are matching cumulative reviews for each chapter that you could assign near the end of the chapter, or middle, or however you like. Those will also give you an indication if a child has forgotten something.

One other possibility is that whenever the exercise set has lots of problems, just assign 2/3 of them or 1/2 of them. Then a week (or few weeks) later assign some of the rest for review.

But in a nutshell, Math Mammoth does better suit parents and teachers who are able to follow the child's mathematical progress just from the way the child solves the various problems in the worktext. However, I truly feel that is the BETTER way to go about it, and that all teachers eventually, with experience, gravitate away from scripted curricula.

12. IS MATH MAMMOTH ALIGNED WITH ANY STATE STANDARDS?

Grades 1-7 meet and exceed the Common Core Standards. Please see this [FAQ](#) for more information. (<http://www.mathmammoth.com/faq-common-core.php>)

13. DOES MATH MAMMOTH CURRICULUM ENCOURAGE THE USE OF MANIPULATIVES?

For the most part, the curriculum does not specifically emphasize manipulatives but visual models. The exercises with visual models COULD be done equally with manipulatives (beans/counters, base ten blocks, fraction manipulatives, etc.)

The exception is the 100-bead abacus, which I feel is needful for first grade. (The other option would be base ten blocks.) I feel that it is essential that kindergartners and first graders have the opportunity to learn tens and ones (place value) using some manipulative.

On each of these pages you will see a list of needed manipulatives for grades 1-3. You need to scroll down the page a bit.

grade 1 here [http://www.mathmammoth.com/complete/grade\\_1.php](http://www.mathmammoth.com/complete/grade_1.php)  
grade 2 here [http://www.mathmammoth.com/complete/grade\\_2.php](http://www.mathmammoth.com/complete/grade_2.php)  
grade 3 here [http://www.mathmammoth.com/complete/grade\\_3.php](http://www.mathmammoth.com/complete/grade_3.php)



# LIGHT BLUE SERIES FAQ

## 14. IS MATH MAMMOTH A SPIRAL OR MASTERY CURRICULUM (HORIZONTAL OR VERTICAL MATH)?

Math Mammoth is basically a mastery-based curriculum. Some topics are studied till mastery within one and the same chapter. Examples of such include regrouping in subtraction for 2-digit numbers (2nd), multiplication tables (3rd), or long division (4th).

However, often the topic is present in two (or even three) neighboring grades. Examples include: equivalent fractions (both 4th and 5th grade), percent (6th and 7th), factoring (4th and 5th). Some topics are “developed” to mastery over several grades, going from simple to more complex; for example reading the clock (grades 1-3), counting coins (grades 1-3), fraction arithmetic (grades 4-5), decimal arithmetic (grades 4-5).

So, you could call Math Mammoth a mastery-oriented program with some spiraling over the grades. It does NOT employ a “tight” or “short” spiral where the same topic would be present, say, every 10 lessons, or dozens of times within the same school year.

## 15. WHAT IS THE ORIGIN OF THIS CURRICULUM?

Math Mammoth books had their start at around 2002, when I (Maria Miller) was tutoring homeschooling children, and noticed the difficulties their parents had in explaining mathematics.

I initially wrote books for certain topics, and later those books gave rise to the Blue Series books currently sold on this site.

I always designed the lessons in the books so that they would teach BOTH the parent and the child the processes and concepts of elementary math. Thus, the books contain very clear explanations, lots of visual exercises and pattern exercises that help children see the structure of mathematics and clearly understand the concepts of mathematics, instead of just memorizing rules.

Ample practice for computation is not forgotten either. Word problems abound.

The complete curriculum had its start in 2007, when I was asked to combine my books into material that could be sold by grade levels.

## 16. DOES THE AUTHOR HAVE ANY MATHEMATICS OR EDUCATION CREDENTIALS?

Yes. I have a master's degree in mathematics (1997) after studying 5 years in in university of Joensuu, Finland, and one term in the University of Nottingham, UK. My degree includes minors in physics and statistics, and the educational studies required to become a teacher (as required in Finland).



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