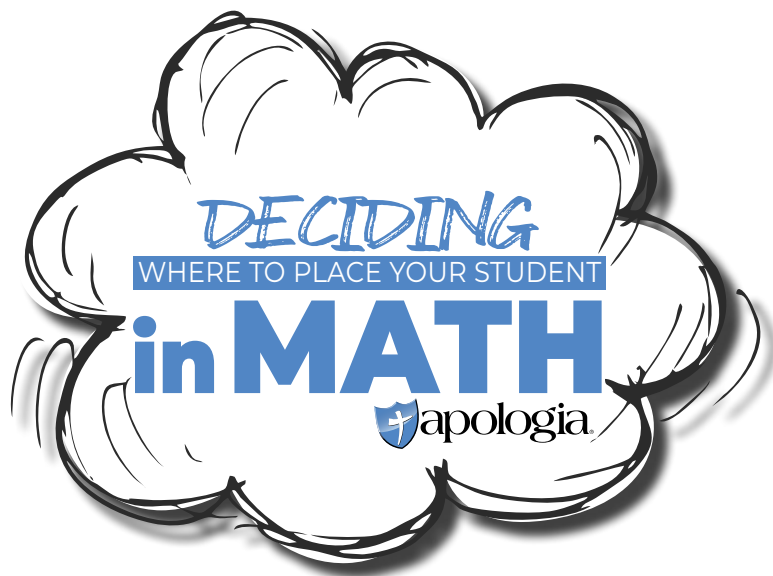


DECIDING

WHERE TO PLACE YOUR STUDENT

in **MATH**





**A**pologia has created this math program with courses designed to progress your student through specific skills and levels of learning rather than by traditional grade levels. In this program, students master math concepts that build on one another to establish a strong foundation for success in future courses.

The pace at which our children learn is unique to each child. This is why all Apologia schedules are labeled as “Suggested.” You can choose to advance through our math courses more quickly than the schedule suggests or slow down the pace of learning as needed. Ultimately, you want your child to not only learn the material but also internalize it, understand it, and be able to use it in its proper context in the world.

Although it may be tempting to advance your student through a math program according to his or her age, it is important to recognize that any gaps in knowledge or mastery will eventually burden the student who isn’t properly prepared.

There is no simple test that you can administer to precisely evaluate your student’s math skills. At Apologia, we believe you know your child best. Take some time to review the following mathematical skills and then spend time with your student to determine if he or she has confidence and is competent in each of these skills before advancing him or her to the next level.

In an effort to help you decide which level is most appropriate for your student, we recommend two things:

1. Start by reviewing what is covered at each level of *Exploring Creation with Mathematics*. We’ve broken down each level according to its component units and chapters. Ask yourself, *Does my child know this concept?* and *Has my child mastered this concept?* Mark each skill according to whether your child knows it well or requires more practice in this area.
2. Review the list to determine which level is the best fit for your child. If you need more detail, you can download the Table of Contents and samples from our website.

*Thank you for choosing Apologia,  
and may God bless you on your homeschooling journey!*



The Following Concepts  
Are Taught in Apologia's  
*Exploring Creation with  
Mathematics, Level 1*

**Mastered**

**Needs  
Practice**

**Unit 1 – Chapter 1**

- Identify, write, and use the numbers 1-10
- Match a numeral to the correct number of objects
- Complete sequences and put the numbers 1-10 in order

**Unit 1 – Chapter 2**

- Identify, write, and use the numbers 0-20
- Match a numeral to the correct number of objects
- Complete sequences and put the numbers 0-20 in order

**Unit 1 – Chapter 3**

- Add by counting on, drawing a picture, and using symbols
- Add zero and add in any order

**Unit 1 – Chapter 4**

- Make the number sums 5 to 10 in different ways
- Solve addition word problems

**Unit 2 – Chapter 5**

- Subtract by taking away, crossing out, or using symbols
- Subtract all or zero from a group
- Solve subtraction word problems

**Unit 2 – Chapter 6**

- Use double facts
- Solve addition problems with answers up to 20
- Add three numbers

**Unit 2 – Chapter 7**

- Count backwards to subtract
- Use three different subtraction strategies
- Compare numbers using subtraction

**Unit 2 – Chapter 8**

- Identify related facts
- Group facts into fact families
- Solve addition and subtraction word problems

**Unit 3 – Chapter 9**

- Count to 120
- Find patterns in the hundreds chart
- Break numbers into tens and ones

**Unit 3 – Chapter 10**

- Compare numbers using base ten blocks
- Compare numbers using place value
- Use the math symbols for greater than, less than, and equal to

**Unit 3 – Chapter 11**

- Add and subtract multiples of 10
- Add two-digit numbers using the hundreds chart and base ten blocks
- Add two-digit numbers using place value

**Unit 4 – Chapter 12**

- Measure lengths
- Measure capacity
- Measure time to the hour and half hour

**Unit 4 – Chapter 13**

- Record data with tally marks
- Collect data with a survey
- Graph data on picture graphs and bar graphs

**Unit 5 – Chapter 14**

- Identify and describe 3D shapes
- Build 3D shapes
- Identify the faces of 3D shapes

**Unit 5 – Chapter 15**

- Identify and describe 2D shapes
- Create new 2D shapes
- Divide shapes into equal parts



The Following Concepts  
Are Taught in Apologia's  
*Exploring Creation with  
Mathematics, Level 2*

Mastered

Needs  
Practice

**Unit 1 – Chapter 1**

- Use place value to read and write two-digit numbers
- Represent two-digit numbers in standard and expanded form
- Determine if a number is even or odd

**Unit 1 – Chapter 2**

- Count to 1,000
- Write three-digit numbers in different ways
- Compare three-digit numbers

**Unit 2 – Chapter 3**

- Use double facts or make a 10 to help you add
- Use the bar model to solve addition and subtraction problems
- Count back, use a related fact, or make a 10 to solve a subtraction problem

**Unit 2 – Chapter 4**

- Choose the best subtraction strategy
- Use the bar model
- Use repeated addition

**Unit 2 – Chapter 5**

- Add two-digit numbers using compensation
- Add two-digit numbers in expanded form
- Add two-digit numbers in the vertical format
- Add three and four numbers together

**Unit 2 – Chapter 6**

- Subtract two-digit numbers using number lines, counting up, and compensation
- Subtract two-digit numbers using base ten blocks
- Subtract two-digit numbers in the vertical format
- Solve two-digit addition and subtraction problems using the bar model and other strategies

**Unit 3 – Chapter 7**

- Count up coins
- Count up amounts over one dollar

**Unit 3 – Chapter 8**

- Tell time to the nearest five minutes
- Use a.m. and p.m.

**Unit 4 – Chapter 9**

- Add three-digit numbers using base ten blocks
- Add three-digit numbers in expanded form
- Add three-digit numbers in the vertical format

**Unit 4 – Chapter 10**

- Subtract three-digit numbers using base ten blocks
- Subtract three-digit numbers by drawing
- Subtract three-digit numbers in the vertical format

**Unit 5 – Chapter 11**

- Measure lengths in inches
- Use a ruler
- Measure lengths in feet
- Use a tape measure
- Estimate and compare measurements

**Unit 5 – Chapter 12**

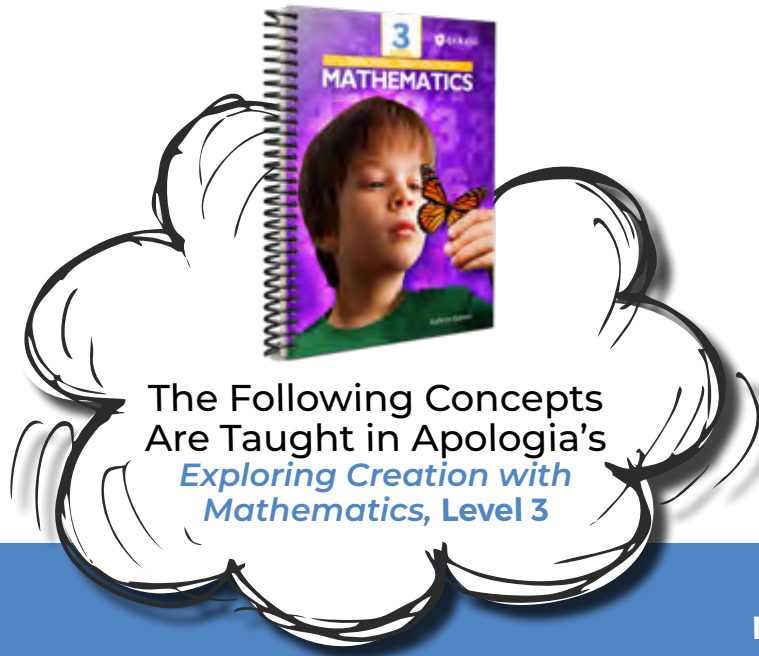
- Measure lengths in centimeters
- Measure lengths in meters
- Estimate and compare measurements

**Unit 5 – Chapter 13**

- Record data on a tally chart
- Create and analyze picture graphs
- Create and analyze bar graphs
- Create and analyze line graphs

**Unit 6 – Chapter 14**

- Identify 3D and 2D shapes
- Identify angles, symmetry, and equal parts



The Following Concepts  
Are Taught in Apologia's  
*Exploring Creation with  
Mathematics, Level 3*

**Mastered**

**Needs  
Practice**

**Unit 1 - Chapter 1**

- Round to the nearest ten
- Round to the nearest hundred
- Compare three-digit numbers



**Unit 1 - Chapter 2**

- Estimate Sums and Differences
- Add and Subtract with Regrouping
- Solve Addition and Subtraction Word Problems



**Unit 2 - Chapter 3**

- Use repeated addition to find the total in equal groups
- Use skip counting and number lines to find the total in equal groups
- Learn the definition and symbols for multiplication



**Unit 2 - Chapter 4**

- Learn to multiply by 2, 10, 5, 3, and 4
- Practice your multiplication facts



**Unit 3 - Chapter 5**

- Divide using counters
- Divide by drawing and circling
- Divide using repeated subtraction and arrays
- Represent division problems with a bar model

**Unit 3 – Chapter 6**

- Relate multiplication and division
- Divide by 2, 10, 5, 3, and 4
- Practice memorizing division facts

**Unit 4 – Chapter 7**

- Graph data on picture graphs, bar graphs, and line graphs
- Record the time to the minute
- Find time intervals
- Measure liquid volume and mass

**Unit 5 – Chapter 8**

- Learn to multiply by 6, 7, 8, and 9
- Practice memorizing multiplication facts

**Unit 5 – Chapter 9**

- Divide by 6, 7, 8, and 9
- Practice memorizing division facts
- Solve division word problems

**Unit 6 – Chapter 10**

- Use fractions to describe part of a whole or group
- Label fractions on a number line
- Solve fraction word problems

**Unit 6 – Chapter 11**

- Compare fractions
- Find equivalent fractions

**Unit 7 – Chapter 12**

- Find the perimeter of rectangles and other shapes
- Find the area of rectangles and other shapes

**Unit 7 – Chapter 13**

- Identify polygons and non-polygons
- Classify polygons according to their sides and angles
- Identify circles and their different parts





The Following Concepts  
Are Taught in Apologia's  
*Exploring Creation with  
Mathematics, Level 4*

**Unit 1- Chapter 1**

- Use place value to write numbers up to one million
- Write numbers in expanded and written form
- Round numbers

**Unit 1- Chapter 2**

- Add and subtract large numbers
- Estimate sums and differences

**Unit 2 - Chapter 3**

- Practice multiplication facts
- Square numbers

**Unit 2 - Chapter 4**

- Multiply with base ten blocks
- Estimate products
- Multiply in expanded form
- Multiply in the vertical format

**Unit 2 - Chapter 5**

- Multiply 2-Digit Numbers Using Base Ten Blocks
- Multiply 2-Digit Numbers Using Expanded Form
- Multiply 2-Digit Numbers in the Vertical Format

**Unit 3 - Chapter 6**

- Use the building blocks of geometry
- Explore and discover the characteristics of plane figures

**Unit 3 - Chapter 7**

- Classify angles
- Estimate angle measurements
- Measure and draw angles

**Unit 4 - Chapter 8**

- Practice division facts
- Find square roots

**Unit 4 - Chapter 9**

- Find factors of numbers
- Find multiples of numbers
- Use divisibility rules and patterns

**Unit 4 - Chapter 10**

- Explore division with remainders
- Estimate quotients
- Divide using the vertical format

**Unit 5 - Chapter 11**

- Find the area of rectangles
- Find the area of composite figures
- Find the perimeter of rectangles

**Unit 5 - Chapter 12**

- Measure length, weight, and volume
- Measure time to the second
- Find elapsed time

**Unit 6 - Chapter 13**

- Find equivalent fractions
- Compare fractions

**Unit 6 - Chapter 14**

- Use decimals to represent tenths and hundredths
- Label decimals on a number line
- Compare decimals

**Unit 6 - Chapter 15**

- Add and Subtract Fractions with Like Denominators
- Add and Subtract Mixed Numbers
- Multiply Fractions by a Whole Number