

# Curriculum Guide for 3rd Grade Arithmetic

## Unit 1: Multiplication Facts and Money

9 weeks

A 3.1, A 3.2, A 3.3, A 3.7

### Biblical Worldview Essential Questions

**What is Math good for? How is it a part of creation?**

**What four mathematical operations are recorded in Genesis 1-2?**

**What has God said in His word that relates directly or indirectly to addition? (Col. 1:16-17)**

**How is addition/multiplication seen as part of the truth/order that God has built into reality?**

Objectives	Methods	Resources	Assessment
<p>The students will</p> <ul style="list-style-type: none"> <li>• Show a multiplication fact three ways.</li> <li>• Review addition/subtraction Families 1-18</li> <li>• Appreciate order as designed by God.</li> <li>• Practice mathematical concepts learned in Second grade.</li> <li>• Subtract with borrowing</li> <li>• Complete multiplication problems with carrying</li> <li>• Count out money and show the amount written using the dollar sign and decimals or the cent symbol.</li> <li>• Show a multiplication fact 4 ways.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture/ demonstration</li> <li>• Class discussion</li> <li>• Oral drills</li> <li>• Flash card drills</li> <li>• Counting activity</li> <li>• Class games</li> <li>• Board work</li> <li>• Multiplication game</li> </ul>	<ul style="list-style-type: none"> <li>• Arithmetic text 3</li> <li>• Arithmetic 3 Tests and Speed Drills</li> <li>• Arithmetic Charts</li> <li>• Concept Cards</li> <li>• 1-100 chart</li> <li>• Addition/ Subtraction flash cards</li> <li>• Demonstration clock</li> <li>• Tables/Facts charts 11 &amp; 12</li> <li>• Play money set</li> <li>• ipad app</li> </ul>	<ul style="list-style-type: none"> <li>• Textbook work</li> <li>• Speed drills</li> <li>• Publisher-made test</li> <li>• Oral answers in class</li> <li>• Quizzes</li> <li>• Homework</li> </ul>

# Curriculum Guide for 3rd Grade Arithmetic

## Unit 2: Division & Story Problems

9 weeks

A 3.1, A 3.2, A 3.3, A 3.4

### Biblical Worldview Essential Questions

**Why is it important as Christians that we know that there is a right answer?**

**How are parables like story problems?**

**God created all things; how does using Math show us that He determined the way things would operate?**

Objectives	Methods	Resources	Assessment
<p>The students will</p> <ul style="list-style-type: none"> <li>• Divide numbers by a one digit dividend</li> <li>• Identify and apply the five steps of division.</li> <li>• Measure lines to the nearest half inch.</li> <li>• Complete subtraction problems that involve borrowing.</li> <li>• Practice division with two digit dividends.</li> <li>• Practice division problems which result in a two digit quotient.</li> <li>• Prove a multiplication fact six ways.</li> <li>• Check division problems using multiplication.</li> <li>• Solve division problems with uneven numbers, and practice division problems with remainders.</li> <li>• Divide with five as a divisor.</li> <li>• Solve money problems using addition and subtraction.</li> <li>• Complete division problems with three digit dividends.</li> <li>• Set up story problems using the four story problem questions.</li> <li>• Complete division problems with four digit dividends.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture/ demonstration</li> <li>• Oral drills</li> <li>• Oral exercises</li> <li>• Board work</li> <li>• Around the World</li> <li>• Division games</li> </ul>	<ul style="list-style-type: none"> <li>• Arithmetic 3</li> <li>• Arithmetic 3 Tests and Speed Drills</li> <li>• Math charts</li> <li>• Concept Cards</li> <li>• Flash cards</li> <li>• ipad app</li> </ul>	<ul style="list-style-type: none"> <li>• Textbook work</li> <li>• Speed drills</li> <li>• Publisher-made tests</li> <li>• Oral answers in class discussions</li> <li>• Quizzes</li> <li>• Homework</li> </ul>

# Curriculum Guide for 3rd Grade Arithmetic

## Unit 3: Equations & English Measures

9 weeks

A 3.1, A 3.2, A 3.3, A 3.4

### Biblical Worldview Essential Questions

**What does converting measures have to do with Christ's call to disciple the nations, and to teach people to observe all that He commanded (Matthew 28:18-20)?  
Why is it important to God that we commit things to memory?**

Objectives	Methods	Resources	Assessment
<p>The students will</p> <ul style="list-style-type: none"> <li>• Correctly use symbols for <i>greater than</i>, <i>less than</i>, and <i>equals</i>.</li> <li>• Find an unknown number in an equation.</li> <li>• check an equation</li> <li>• Multiply and divide money.</li> <li>• Measure objects to the nearest centimeter.</li> <li>• Be able to tell how many days in each month of the year.</li> <li>• Memorize basic units of dry capacity.</li> <li>• Identify various measures of weight.</li> <li>• Tell how many feet and yards in a mile.</li> <li>• Convert measures from larger to smaller units or vice versa.</li> <li>• Identify and write Roman numerals 13-30.</li> <li>• Complete/solve simple measurement problems.</li> <li>• Solve math problems with parentheses in the equation.</li> <li>• Regroup addends/factors in an equation.</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture/ demonstration</li> <li>• Classroom discussion</li> <li>• Board work</li> <li>• Oral drills</li> <li>• Individual help</li> <li>• The “knuckle method” for telling how many days are in a month.</li> </ul>	<ul style="list-style-type: none"> <li>• Arithmetic 3</li> <li>• Arithmetic 3 Tests and Speed Drills</li> <li>• 1-100 chart</li> <li>• Concept cards</li> <li>• Tables/Facts chart</li> <li>• Division/Multiplication Flash cards</li> <li>• Roman Numerals Chart</li> <li>• Rulers</li> </ul>	<ul style="list-style-type: none"> <li>• Speed drills</li> <li>• Publisher-made test</li> <li>• Oral answers during class discussions</li> <li>• Workbook assignments</li> <li>• Quizzes</li> <li>• Homework</li> </ul>

## Curriculum Guide for 3rd Grade Arithmetic

### Unit 4: Fractions, Temperature, and Mixed Numbers

9 weeks

A 3.1, A 3.2, A 3.4, A 3.5

#### Biblical Worldview Essential Questions

**What do Geometric shapes have to do with God and His design?**

**How is Math a testimony to God's faithfulness and power?**

**How does Math demonstrate that God has given us His law with blessings and curses?**

**How are fractions reflective of God's unity?**

Objectives	Methods	Resources	Assessment
<p>The students will</p> <ul style="list-style-type: none"> <li>• Identify the fraction of a whole and the fraction of a group.</li> <li>• Practice division problems using short division.</li> <li>• Find one half and one third of a number.</li> <li>• Identify basic temperature reference points.</li> <li>• Read a thermometer.</li> <li>• Add and subtract fractions with the same denominator.</li> <li>• Name geometric shapes.</li> <li>• Identify, add, and subtract mixed numbers.</li> <li>• Be able to make equal fractions.</li> <li>• Reduce fractions.</li> <li>• Average numbers.</li> <li>• Multiply with two two-digit factors</li> <li>• Multiply a 3-digit factor by a 2-digit factor.</li> <li>• Solve money equations.</li> <li>• Divide with a two-digit divisor</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture/demonstrations</li> <li>• Class discussion</li> <li>• Oral drills</li> <li>• Board work</li> <li>• Class games</li> </ul>	<ul style="list-style-type: none"> <li>• Arithmetic text 3</li> <li>• Arithmetic 3 Tests and Speed Drills</li> <li>• Classroom thermometer</li> <li>• Colored pencils</li> <li>• Felt fractional pieces</li> <li>• concept cards</li> <li>• Tables/Facts chart</li> </ul>	<ul style="list-style-type: none"> <li>• Speed Drills</li> <li>• Publisher-made tests</li> <li>• Oral answers to class discussion</li> <li>• Math work text</li> <li>• Quizzes</li> <li>• Homework</li> </ul>