

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

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

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

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