

Curriculum Guide for 1st Grade Math

Unit 1: Zoo Theme

9 weeks

A1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9

Biblical Worldview Essential Questions

How do you think God feels about numbers and counting?

Why do Christians need to know how to count money?

How is adding and subtracting like God?

Why is it important to be able to solve problems, identify patterns and compare information using charts?

Objectives	Methods	Resources	Assessment
<p>The students will: Understand and practice the following concepts: Counting</p> <ul style="list-style-type: none"> • Count to 100 • Counting forward and backward by ones and tens • Identifying before and after numbers • Identifying missing numbers by ones and twos • Counting on a number line <p>Place value</p> <ul style="list-style-type: none"> • Understanding tens and ones • Illustrating with objects • Understand < and > • Identify the number in between <p>Number writing</p> <ul style="list-style-type: none"> • Write numbers to 70 <p>Reading numbers</p> <ul style="list-style-type: none"> • Recognizing cardinal and ordinal numbers and words <p>Addition and Subtraction</p> <ul style="list-style-type: none"> • Understand the concept • Memorize the 1-6 facts • Adding doubles find missing terms • Write + and – number sentences <p>Problem solving</p> <ul style="list-style-type: none"> • Solve and explain story problems • Illustrate story problem • Create story problem <p>Geometry</p> <ul style="list-style-type: none"> • Recognize and draw geometric shapes <p>Logical thinking</p> <ul style="list-style-type: none"> • Continue patterns <p>Money</p>	<ul style="list-style-type: none"> • Practice counting; charts, objects, animal crackers, numbers on a yardstick, place value cards • Matching numbers and determining how many • Completing a pattern • Learning to distinguish right/left hand • Recognize missing numbers • Practicing the correct formation of numbers • Develop the concept of addition and subtraction • Associating the number word with the number • Writing addition sentences vertically and horizontally • Comparing numbers to identify < and > • Grouping objects in tens • Writing two-digit numbers • Counting pennies • Recognize and count ordinal numbers • Distinguishing between ones' and tens' place 	<ul style="list-style-type: none"> • <i>Arithmetic Grade I, Teacher Guide/Curriculum</i> • <i>Arithmetic I Teacher Edition</i> • <i>Arithmetic 1 Student Workbook</i> • <i>Arithmetic 1 Tests and Speed Drills</i> • Pencil and Crayons • Additional practice worksheets <p>Visuals</p> <ul style="list-style-type: none"> • 1-10 Counting Zoo • Big Zoo Picture • Days of Creation Cards • Gray Giraffe Growth Gauge • Kathy Kangaroo Yardstick Animal • Ordinal Ostriches Chart • Right/Left Hand Poem • Zebra Zoomobiles • Birthday chart • Flashcards • Felt numbers • Calendar • Plastic zoo Animals • Animal crackers • Straws • Yardstick • Ziplock bags • Small sticky notes • Real pennies and dimes • Teach-a-coin set • Note cards • Piggy bank • Can and cubes • Three stuffed animals • Sandwich cookies 	<ul style="list-style-type: none"> • Participation in class discussions and activities • Daily worksheets • Daily speed drills • Weekly written and oral test • Weekly homework

<ul style="list-style-type: none"> • Pennies and dimes <p>Graphs</p> <ul style="list-style-type: none"> • Reading and drawing a horizontal bar graph <p>Calendar</p> <ul style="list-style-type: none"> • Reading a calendar • Putting dates on a calendar • Memorizing the days of the week 	<ul style="list-style-type: none"> • Solving word problems • Reading a bar graph • Counting backward • Counting the dates on a calendar with ordinal numbers • Counting dimes • Counting by tens • Comparing the sizes of geometric shapes • Distinguishing between circles and squares • Writing dates on a calendar • Buying items using pennies and dimes • Complete a number sequence 		
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Unit 2: Farm These

9 weeks

A1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9

Biblical Worldview Essential Questions

Does the Bible mention things we see on a calendar?

How do you think God feels about fractions?

Why do Christians need to be able to measure?

Objectives	Methods	Resources	Assessment
<p>The students will: Understand and practice the following concepts</p> <p>Counting</p> <ul style="list-style-type: none"> Counting to 200 Counting forward and backward by twos and fives Counting by 25s Identifying number before and after by fives and tens <p>Place Value</p> <ul style="list-style-type: none"> Understanding hundreds Illustrating with objects Understanding and using $<$ and $>$ Identifying the number in between Putting numbers in numerical order Finding numbers that are between but not consecutive <p>Number writing</p> <ul style="list-style-type: none"> Writing numbers to 200 Writing even and odd numbers <p>Reading numbers</p> <ul style="list-style-type: none"> Cardinal and ordinal numbers Reading numbers to 200 <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Memorize 1-9 facts Understand the concept of addition and subtraction Write addition and subtraction sentences Solve story problems <p>Geometry</p> <ul style="list-style-type: none"> Recognize and draw geometric shapes <p>Logical thinking</p> <ul style="list-style-type: none"> Continuing patterns Solving daily "thinking cap" 	<ul style="list-style-type: none"> Practice counting; charts objects, farm animals, and place value cards Count by 5s Identifying before and after numbers by 1s, 2s, 5s, and 10s Identifying missing numbers by 1s, 2s, 5s, and 10s Measuring vertical and horizontal lines Estimating the length of objects and then measuring Distinguishing between odd and even numbers Practicing addition and subtraction Listening to dictated combinations and writing the sums and differences Say the months Become familiar with the concept of symmetry Write numbers using the place value Write number sentences using combination cards Reading and understanding the calendar Solving story problems with 3 facts Listening to poems to understand the triangle and 	<ul style="list-style-type: none"> <i>Arithmetic Grade 1 Teacher Guide/Curriculum</i> <i>Arithmetic I Teacher Edition</i> <i>Arithmetic 1 Student Workbook</i> <i>Arithmetic 1 Tests and Speed Drills</i> Pencil and Crayons Additional practice worksheets <p>Visuals</p> <ul style="list-style-type: none"> Thermometers Debra Duck Mercury Mouse thermometer Visit the Farm poster Felt farm animals Plastic farm animals Counting charts Flashcards Arithmetic drill set Birthday chart Calendar Fractional circles Judy clock Individual clocks Place value concept cards Nickels and quarters Teach-a-coin set Can and cubes Combination dot cards Piggy bank Rulers Construction paper Straws Containers marked ones, tens, and hundreds Large rubber bands Apples and knife Scissors 	<ul style="list-style-type: none"> Participation in class discussions and activities Daily worksheets Daily speed drills Weekly written and oral test Weekly homework

<ul style="list-style-type: none"> • Solving story problems and giving combinations <p>Money</p> <ul style="list-style-type: none"> • Counting nickels and quarters • Combining coins <p>Graphs</p> <ul style="list-style-type: none"> • Reading and drawing bar graphs <p>Calendar</p> <ul style="list-style-type: none"> • Reading a calendar • Putting dates on a calendar • Memorizing months of the year • Learning number of days in a month <p>Clocks</p> <ul style="list-style-type: none"> • Telling and setting time to the hour and half hour • Deciding if a.m. or p.m. <p>Ruler</p> <ul style="list-style-type: none"> • Measuring the length in inches and centimeters • Drawing lines a given number • Comparing length <p>Fractions</p> <ul style="list-style-type: none"> • understanding the concept of fractions • Recognizing half <p>Measurement</p> <ul style="list-style-type: none"> • understanding and memorizing linear measures, time, capacity, dozen and half-dozen <p>Temperature</p> <ul style="list-style-type: none"> • Reading and setting a thermometer • Understanding the concept of degrees • Determining suitable clothing for a given temperature 	<p>rectangle</p> <ul style="list-style-type: none"> • Identifying geometric shapes • Measuring with yardstick • Compare lengths of yard, foot, and inch • Match analog clocks with digital clocks • Comparing 3 numbers to identify < and > • Writing dictated numbers • Putting half together to make whole • Dividing objects in half • Counting the minutes on a clock • Reading a thermometer • Relating temperature and appropriate clothing • Understanding the concept of degrees • Understanding and memorizing linear, time, capacity, dozen and half-dozen measurements 	<ul style="list-style-type: none"> • Candy bars • Cup, pint, quart, and gallon containers • Large bucket $\frac{1}{2}$ filled with water • Egg carton with plastic eggs • Small objects to be counted into a dozen and $\frac{1}{2}$ dozen 	
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Unit 3: Ocean Theme

9 weeks

A1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9

Biblical Worldview Essential Questions

How does counting reflect God’s nature?

What does the Bible say about money?

How can an understanding of geometry be helpful to Christians?

Why does temperature really matter?

Objectives	Methods	Resources	Assessment
<p>The students will: Understand and practice the following concepts</p> <p>Counting</p> <ul style="list-style-type: none"> • Counting to 1,000 • Counting forward and backward by 1s, 2s, 3s, 5s, 10s • Counting by 25s • Using ordinal numbers to count presidents <p>Place Value</p> <ul style="list-style-type: none"> • Understanding hundreds, tens, and ones • Understanding and using < and > • Identifying the umbers that are between • Putting numbers in numerical order • Identifying numbers that are between but not consecutive <p>Number Writing</p> <ul style="list-style-type: none"> • Writing numbers to 1,000 • Writing odd and even numbers <p>Reading numbers</p> <ul style="list-style-type: none"> • Reading numbers to 1,000 • Recognizing cardinal and ordinal number words <p>Addition and Subtraction</p> <ul style="list-style-type: none"> • Understanding concept • Memorizing 1-11 facts • Write addition and subtraction sentences • Adding and subtracting multiple number combinations • Adding and subtracting two and three digit numbers • Adding and subtracting coins • Adding doubles plus one 	<ul style="list-style-type: none"> • Practice counting: charts and objects and place value cards • Counting forward and backward • Find the sums and differences 1-11 facts • Writing missing addends • Finding one-fourth and one-half of a whole • Counting coins • Review measures • Review days and months • Comparing 3 numbers and chossing which comes between • Draw bars on graph • Distinguishing among whole, half and fourth • Solving story problems • Distinguishing odd and even number • Writing additiona and subtraction sentences • Solving 3 number addition • Write numbers • Counting half dollar and dollar • Deciding what came first in sequence • Complete calendar • Telling time • Drawing lines a 	<ul style="list-style-type: none"> • <i>Arithmetic Grade 1 Teacher Guide/Curriculum</i> • <i>Arithmetic I Teacher Edition</i> • <i>Arithmetic 1 Student Workbook</i> • <i>Arithmetic 1 Tests and Speed Drills</i> • Pencil, crayons and scissors • Additional practice worksheets • Felt farm animals • Plastic farm animals • Flashcards • Birthday graph • Calendar • Judy Clock • Thermometer • Combination dot cards • Fractional circles • Gary Giraffe growth chart • Mercury Mouse thermometer • Place value concept cards • Teach-a-coin set • Real dollar and coins • Apple and knife • Rectangular sheet of paper • Toy boats • Construction paper clocks • Bathroom scale • Pound of fruit • Drill set and flashcards • Can and cubes • Candy bar and knife • Ruler • Yardstick • Calendar 	<ul style="list-style-type: none"> • Participation in class discussions and activities • Daily worksheets • Daily speed drills • Weekly written and oral test • Weekly homework

<p>Story problems</p> <ul style="list-style-type: none"> Solving addition and subtraction problems <p>Geometry</p> <ul style="list-style-type: none"> Recognizing and drawing geometric shapes Logical thinking Continuing patterns Drawing shapes in a grid Closing geometric shapes <p>Money</p> <ul style="list-style-type: none"> Counting and combining dollars and coins Adding and subtracting coins <p>Graphs</p> <ul style="list-style-type: none"> Using a scale by 2s on a bar graph Reading a bar graph with scale of five and ten <p>Calendar</p> <ul style="list-style-type: none"> Reading a calendar Putting dates on a calendar Memorizing days Memorizing months Learning number of days in a month <p>Clock</p> <ul style="list-style-type: none"> Telling time to hour, half hour, quarter, and five minute intervals Setting clock <p>Ruler</p> <ul style="list-style-type: none"> measuring length in inches and centimeters drawing lines given number of inches and centimeters comparing inches and centimeters <p>Fractions</p> <ul style="list-style-type: none"> Understanding the concept of fractions Recognizing half, fourth, and third of objects <p>Measurements</p> <ul style="list-style-type: none"> Understanding and memorizing linear, time, capacity, dozen, half dozen, and ounce measures Comparing weights <p>Temperature</p> <ul style="list-style-type: none"> Reading and setting a thermometer Understand the concept of degrees Determining suitable clothing for a given temperature 	<p>specific length</p> <ul style="list-style-type: none"> Reading a thermometer Completing number sequences by 2 Comparing number and identifying < and > Tracing geometric shapes Solving 2 digit addition Solving story problems Understanding and using dollar sign and decimal point Identifying a number using place value Identifying number in hundreds' place Estimating differences in weights Finding sums for 3 number combinations Setting clock to 5 minute increments Comparing units of capacity Reading thermometers Develop the concept of dividing group into thirds Count presidents using ordinal numbers Using a scale Adding 3 number combinations Adding 4 number combinations Practice addition and subtraction facts Comparing units of capacity, weight, and length Review shapes Converting feet to yards Subtracting 2 digit numbers using code to color Adding 5 number combinations 		
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	<ul style="list-style-type: none">• Drawing similar lines on a grid		
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Unit 4: Spring Theme

9 weeks

A1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9

Biblical Worldview Essential Questions

Why is it important for Christians to be able to compare and order numbers?

Are numbers present in the Bible?

What does the Bible say about multiplication?

How do you think God feels about logical thinking and problem solving?

Objectives	Methods	Resources	Assessment
<p>The students will Understand and practice the following concepts</p> <p>Counting</p> <ul style="list-style-type: none"> Counting to 1,000 Counting forward and backward 1s, 2s, 3s, 5s, 10s Counting forward by 25s Counting Roman numerals 1-10 Counting tally marks <p>Place value</p> <ul style="list-style-type: none"> Understanding hundreds, tens, and ones Developing the concept of 1,000 Understanding and using < and > Using the symbols of < and > Identifying numbers in numerical order Identifying numbers that are between but not consecutive Ordering 4 numbers Recognizing that $25=20+5$ not $2+5$ <p>Number Writing</p> <ul style="list-style-type: none"> Writing numbers to 1,000 Writing even and odd numbers writing Roman numerals Writing numbers using tally marks <p>Reading numbers</p> <ul style="list-style-type: none"> Recognizing cardinal and ordinal number words 1-20 Reading numbers 1,000 Reading Roman numerals <p>Fractions</p> <ul style="list-style-type: none"> Understanding the concept Recognizing half, one-fourth, and one-third Comparing fractions <p>Measurement</p>	<ul style="list-style-type: none"> Practice counting by 1s, 2s, 3s, 5s, 10s, and quarters Practice counting forward and backward Distinguishing between odd and even numbers Counting by odd and even numbers Comparing numbers to determine < and > Counting and reading ordinal and cardinal numbers Practice addition and subtraction facts Identifying the missing numbers in addition and subtraction combinations Adding doubles Adding two and three digit numbers Carrying to the tens and hundreds place value Reading a bar graph Drawing tally marks Reading a thermometer Solving story problems Answering story problems with extra facts and multiple combinations Counting and adding coins Match coins with 	<ul style="list-style-type: none"> <i>Arithmetic Grade 1 Teacher Guide/Curriculum</i> <i>Arithmetic 1 Teacher Edition</i> <i>Arithmetic 1 Student Workbook</i> <i>Arithmetic 1 Tests and Speed Drills</i> Pencil, crayons and scissors Additional practice worksheets 1-100 counting chart 101-200 counting chart Flashcards Drill set flashcards Birthday chart Calendar Classroom thermometer Combination dot cards Fraction circles Gary Giraffe growth gauge Judy clock Mercury Mouse thermometer Place value concept cards Teach-a-coin set Dollar and coins Rulers < and > symbols Plastic ocean animals Toy cars Yardstick Liquid measure containers Felt fractional circles Egg carton and plastic eggs marbles Paper starfish and squid 	<ul style="list-style-type: none"> Participation in class discussions and activities Daily worksheets Daily speed drills Weekly written and oral test Weekly homework

<ul style="list-style-type: none"> • Understanding and memorizing linear, time, capacity, dozen, half dozen, ounce, and pound <p>Temperature</p> <ul style="list-style-type: none"> • Reading and setting thermometer • Understand the concept of degrees • Determining suitable clothing for a given temperature <p>Multiplication</p> <ul style="list-style-type: none"> • Understanding groups of 2,3,4,5 <p>Story Problems</p> <ul style="list-style-type: none"> • Solving addition and subtraction problems, information missing or with too much information <p>Addition and Subtraction</p> <ul style="list-style-type: none"> • Understand the concept • Memorizing facts 1-13 • Understanding facts 14-18 • Writing addition and subtraction sentences • Adding and subtracting multiple number combinations • Adding and subtracting 2 and 3 digit numbers • Adding 3 two-digit numbers • Adding 2 and 3 numbers with carrying to the 10s and 100s <p>Geometry</p> <ul style="list-style-type: none"> • Recognizing and drawing geometric shapes • Finding the perimeter <p>Logical thinking</p> <ul style="list-style-type: none"> • Recognizing and drawing geometric shapes • Finding the perimeter <p>Logical Thinking</p> <ul style="list-style-type: none"> • Recognizing patterns • Solving <i>Thinking Cap</i> • Making choices by using clues <p>Money</p> <ul style="list-style-type: none"> • Counting and combining dollars and coins • Counting coins in mixed order • Adding and subtracting coins <p>Graphs</p> <ul style="list-style-type: none"> • Reading and drawing bar graph • Taking survey and 	<p>what they will buy</p> <ul style="list-style-type: none"> • Developing the concept of multiplication with counting by 2s and 3s. • Listening to dictated combinations and writing the answer • Writing dictated numbers • Comparing measures • Count and learn Roman numerals 1-10 • Write Roman numerals that correspond to the Arabic numbers • Telling time • Setting a clock • Comparing fractions, whole numbers • Identifying shapes • Telling time and determining whether it is a.m. or p.m. • Review calendar, days, months, number of days in a month • Write addition and subtraction sentences • Place < and > between numbers • Distinguish between odd and even numbers • Reviewing measures • Coloring a picture with a code • Dividing groups into fractions • Identifying the denominator in a fraction • Gathering and recording information for a bar graph • Using a number code to write a hidden word • Answer multiple 		
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<p>graphing results</p> <ul style="list-style-type: none">• Using a scale by 3s• Graphing tally marks• Using a grid <p>Calendar</p> <ul style="list-style-type: none">• Reading and putting dates on a calendar• Memorizing days and months• Learning the number of days in a month• Study consecutive months <p>Clocks</p> <ul style="list-style-type: none">• Telling and setting time to the hour, half hour, quarter, and 5 minute intervals	<p>combinations</p> <ul style="list-style-type: none">• Using $<$, $>$, and $=$ signs with sums		
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