Grade 1 Math

Course Duration: Full Year
Category: [Elementary](), [Mathematics]()
Assessment: Lesson Practice, Unit Exams, Mid-Term Exam, Final Exam

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Course Overview
This Grade 1 Math course focuses on addition, subtraction through the number 20, whole number relationships and place value, linear measurement, measuring lengths, and geometric shapes.

Course Objectives & Student Learning Outcomes

Upon completion of Acellus Grade 1 Math, students will be able to recognize equal numbers of objects, number words for 0 – 29, and ordinal numbers; count 0 – 20; add within word problems and sentences; use the Order Property for Addition; count on 1 and on 2; use a number line; add zero, near doubles, and doubles; subtract within word problems and sentences; subtract zero and all; take numbers apart; subtract using 10; use the relational properties of addition and subtraction; use the correct operation; write addition and subtraction sentences; and compare amounts, and identify greater than and less than symbols, and use the symbols to compare numbers to include real-life situations. Students will also be able to sort, classify, and tally; make graphs and pictures to include real-life situations; correctly identify possible and impossible; compare, measure, and estimate length; use nonstandard units, inches, and centimeters; estimate capacity; and use length and estimation in real-life situations; identify shapes, plane figures, and solid figures as well as make new shapes; identify equal and unequal parts, halves, and fourths; use shapes and fractions in real-life situations; identify, extend, and create pictorial and number patterns; tell time with both analog and digital clocks to include identifying the half-hour; use spatial sense related to position, follow directions to include everyday situations, and find distances on a map. Finally, students will be able to add by using 10; add doubles and near doubles; use addition when subtracting; and add three numbers, add in word problems; count over 100; add using the ones and tens place values; add 2-digit numbers 10 – 20, add and count using groups of 10, and use mental math to add and subtract by 10.

Scope and Sequence

Unit 1 - Numbers to 20
In this unit students learn about equal groups and number words to 20. They also explore counting objects and ordinal numbers.

Unit 2 - Addition
In this unit students discuss addition stories, the equal sign, and addition sentences. They learn the order property for addition, how to use addition to make numbers, and how to count on. They use a number line to count on, learn about adding zero and about near doubles and doubles, and learn about vertical addition sentences. They learn about real-life uses for addition, and they are introduced to math tiles.

Unit 3 - Subtraction
In this unit students are introduced to subtraction. They learn subtraction stories, sums of 2, subtraction sentences, and sums of 3. They learn to use a number line to count back, practice sums of 3 and counting back, and learn a

new math drill strategy. They further practice sums of 2 and learn about subtracting zero. They learn about sums of 4, subtracting all, ways to take apart numbers, and subtracting by making a ten. They practice sums of 2 and of 3, and learn about vertical subtraction sentences.

Unit 4 - Addition and Subtraction
In this unit, students learn how to think about addition in order to subtract. They learn how to know when to add or to subtract, and how addition and subtraction are related. They learn related addition facts and related subtraction facts, and they learn to write addition sentences and subtraction sentences. In addition, they practice sums of 3, 4, 5, and 6.

Unit 5 - Comparing
In this unit students investigate comparing. They learn to compare amounts, and learn about greater than and less than, including their symbols. They learn to compare numbers using symbols, and practice sums of 4, 5, 6, and 7.

Unit 6 - Sorting, Classifying, and Using Graphs
In this unit students learn about sorting and classifying. They learn to make graphs. They learn about picture graphs, tally graphs, and bar graphs, and experience a real-world example of using a graph. In addition, they practice sums of 6, 7, 8, and 9.
After this unit students are presented with the Mid-term Exam.

Unit 7 - Length and Capacity
In this unit students are introduced to length and learn to measure something in non-standard units. They learn what inches and centimeters are and what length is. Next they are introduced to estimation and learn to estimate capacity and length. They learn the advantages of estimation versus perfect measurement, and practice sums of 4, 8, 9, and 10.

Unit 8 - Geometry
In this unit, students are introduced to shapes. They learn to identify plane figures, they explore solid figures, they make new shapes, and they learn about equal and unequal parts. They learn about halves and fourths, and explore fractions. They practice sums of 5, 9, and 10.

Unit 9 - Patterns and Time
In this unit, students learn to identify patterns, including pictorial patterns and number patterns. They also learn to extend and create patterns. Next, students learn about telling time. They learn what an analog clock is, and what a digital clock is. They study what a half hour is, and practice reading time. They also practice sums of 2, 3, 6, 7, 8, and 9.

Unit 10 - Spatial Sense and Maps
In this unit students are introduced to spatial sense. They learn position words, as well as how to follow directions on a map and how to find distance on a map.

Unit 11 - More Addition
In this unit students learn to add by making a ten. They review thinking about addition to subtract, and near doubles and doubles. They learn to add three numbers, they practice story problems, and they learn to count over 100. They also practice sums of 3, 4, 5, 6, 7, and 10.

Unit 12 - Place Value and Mental Math
In this unit students discuss place value in the numbers 10 through 20. They learn about groups of ten, and learn to skip count by tens. They learn about tens and ones in place value, and learn to add tens using mental math. They

also learn about adding tens and ones, adding two-digit numbers, and subtracting tens with mental math. In addition, they practice sums of 4, 6, 7, 8, 9, and 10.

After this unit students are presented with the Final Exam.