
*The mission of the Chardon Local Schools is high achievement
for all students where learning is our most important work.*

Course of Study – MATH

Revised 2021-22

2ND GRADE





COS — MATH — Revised 2021-22

2nd Grade

Strand: Operations and Algebraic Thinking

Learning Standard

2.OA.1 Use addition and subtraction within 100 to solve one and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., using drawings and equations with a symbol for the unknown number to represent the problem.

2.OA.2 Fluently add and subtract within 20 using mental strategies. By the end of Grade 2, know from memory all sums of two one-digit numbers

2.OA.3 Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2's; write an equation to express an even number as a sum of two equal addends.

2.OA.4 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

How Taught?

- Whole Group instruction
- Small group instruction (differentiate instruction)
- Hands on lessons
- Using visuals
- Playing Math games
- Math talk (vocabulary introduction)
- Cooperative learning
- Active participation
- Drill and practice
- Modeling
- Monitoring and adjusting
- Guided practice

Materials:

- Math Series Resources- worksheets, workbooks assessments, and using hands on materials (manipulatives) when needed
- Smartboards and student chromebooks.
- Websites and videos relevant to standards being taught.
- Chardon approved online resources such as Moby Max, Prodigy, and xtramath.

How Assessed?

- Math program providing assessments (pre and post) to ensure mastery of standards being taught.
- Teacher observation
- Teacher made assessments (exit slips)

How Re-Taught?

- Small group instruction
- Assessment review
- One-on-One with teacher
- Peer teacher
- Building tutor
- Review games
- Center work



COS — MATH — Revised 2021-22

2nd Grade

Strand: Number and Operations

Learning Standard:

- 2.NBT.1** Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 represents 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases:
- a. 100 can be thought of as a bundle of ten tens---called a "hundred."
- b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900, refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).
- 2.NBT.2** Count within 1000; skip-count by 5's, 10's, and 100's.
- 2.NBT.3** Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.
- 2.NBT.4** Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using $>$, $=$, and $<$ symbols to record the results of comparisons.
- 2.NBT.5** Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
- 2.NBT.6** Add up to four two-digit numbers using strategies based on place value and properties of operations
- 2.NBT.7** Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds
- 2.NBT.8** Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900
- 2.NBT.9** Explain why addition and subtraction strategies work, using place value and the properties of operations. (Explanations may be supported by drawings or objects.)

Materials:

- Math Series Resources- worksheets, workbooks assessments, and using hands on materials (manipulatives) when needed
- Smartboards and student chromebooks.
- Websites and videos relevant to standards being taught.
- Chardon approved online resources such as Moby Max, Prodigy, and xtram

How Taught?

- Whole Group instruction
- Small group instruction (differentiate instruction)
- Hands on lessons
- Using visuals
- Playing Math games
- Math talk (vocabulary introduction)
- Cooperative learning
- Active participation
- Drill and practice
- Modeling
- Monitoring and adjusting
- Guided practice

How Assessed?

- Math program providing assessments (pre and post) to ensure mastery of standards being taught.
- Teacher observation
- Teacher made assessments (exit slips)

How Re-Taught?

- Small group instruction
- Assessment review
- One-on-One with teacher
- Peer teacher
- Building tutor
- Review games
- Center work



COS — MATH — Revised 2021-22

2nd Grade

Strand: Measurement and Data

Learning Standard:

2.MD.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

2.MD.2 Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen

2.MD.3 Estimate lengths using units of inches, feet, centimeters, and meters.

2.MD.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit

2.MD.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.

2.MD.6 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram.

2.MD.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m

2.MD.8 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. Example: If you have 2 dimes and 3 pennies, how many cents do you have?

2.MD.9 Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units

2.MD.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.

Materials:

- Math Series Resources- worksheets, workbooks assessments, and using hands on materials (manipulatives) when needed
- Smartboards and student chromebooks.
- Websites and videos relevant to standards being taught.
- Chardon approved online resources such as Moby Max, Prodigy, and xtramath.

How Taught?

- Whole Group instruction
- Small group instruction (differentiate instruction)
- Hands on lessons
- Using visuals
- Playing Math games
- Math talk (vocabulary introduction)
- Cooperative learning
- Active participation
- Drill and practice
- Modeling
- Monitoring and adjusting
- Guided practice

How Assessed?

- Math program providing assessments (pre and post) to ensure mastery of standards being taught.
- Teacher observation
- Teacher made assessments (exit slips)

How Re-Taught?

- Small group instruction
- Assessment review
- One-on-One with teacher
- Peer teacher
- Building tutor
- Review games
- Center work



COS — MATH — Revised 2021-22

2nd Grade

Strand: Geometry

Learning Standard:

2.G.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes

2.G.2 Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.

2.G.3 Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape

How Taught?

- Whole Group instruction
- Small group instruction (differentiate instruction)
- Hands on lessons
- Using visuals
- Playing Math games
- Math talk (vocabulary introduction)
- Cooperative learning
- Active participation
- Drill and practice
- Modeling
- Monitoring and adjusting
- Guided practice

Materials:

- Math Series Resources- worksheets, workbooks assessments, and using hands on materials (manipulatives) when needed
- Smartboards and student chromebooks.
- Websites and videos relevant to standards being taught.
- Chardon approved online resources such as Moby Max, Prodigy, and xtramath.

How Assessed?

- Math program providing assessments (pre and post) to ensure mastery of standards being taught.
- Teacher observation
- Teacher made assessments (exit slips)

How Re-Taught?

- Small group instruction
- Assessment review
- One-on-One with teacher
- Peer teacher
- Building tutor
- Review games
- Center work