

**Grace Christian Academy
Course Description**

Course Title: 2nd Grade Math
Course Length: Full year

Class Meetings (Per Week): Daily
Textbook: Math 2 for Christian Schools
BJU Press

General Course Description: Math 2 for Christian Schools is a manipulative-based concept approach to teaching. It promotes an understanding of math concepts through an inductive teaching method. Instruction emphasizes student discovery using concrete manipulatives before using abstract math symbols; teaching problem - solving skills. The curriculum provides a systematic plan for the practice of skills and the review of concepts taught in the lessons, integrating Bible stories and Christian principles. Curriculum meets individual needs with reinforcement and enrichment activities.

Biblical Principles:

God cares about numbers. He knows them all. (Psalm 147:4, Exodus 23:26, Numbers 3:15, Daniel 5:26, Matthew 10:30)

Numbers tell us how important we are to Him. (Matthew 10:30, Luke 12:7, Matthew 10:30)

God uses numbers to show perfection, completion and foundation. (Exodus 23:26, Daniel 5:26, Numbers 3:15)

General Course Content:

1st Quarter:

Addition and subtraction facts to 6
Place value to 100
Addition and subtraction to 12
Time
Addition and subtraction facts to 18

2nd Quarter:

Money
Add 2 digit numbers
Subtract 2 digit numbers
Geometry

3rd Quarter:

Place value to 100
Addition 3 digit numbers
Fractions
Subtract 3 digit numbers
Customary measurement

4th Quarter:

Multiplication readiness
Money
Multiplication
Time intervals
Division readiness

Related Objectives/Learned Outcomes;

The student will learn:

1. To graph class birthdays with a bar graph
2. To estimate and count using a "10 grid"
3. To graph areas of the town in which we live
4. The # character and be able to answer the flash cards
5. To count by 2's and 3's
6. To identify shapes
7. To do graph papers on different kinds of graphs with 75% accuracy
8. To demonstrate drawing bar graphs, pie graphs, and picture graphs
9. To demonstrate graphing their names
10. To demonstrate how to use the number line to add and subtract
11. To demonstrate the use of unifix cubes to measure whale lengths
12. To demonstrate the use of a centimeter ruler to measure whale lengths
13. To organize groupings of 10
14. To demonstrate writing numbers to 100
15. To show odd and even using unifix cube and follow up with written activities
16. To listen to word problem stories, do calculations in head, and answer questions that pertain to the story
17. To complete a one- minute timed drill
18. To list number of 10 more and 10 less
19. To place the $<$ $>$ signs in the correct way in a problem
20. To write the ordinal numbers to 10
21. To identify patterns +10, -10, +100, -100, as well as the greater than, less than signs
22. To complete addition facts to 12
23. To complete equations with three and four addends
24. To complete examples of fact families in addition and subtraction
25. To solve problems of addition and subtraction facts to 12
26. To list addition and subtraction names for 7 to 12
27. To solve word problems using the missing addend
28. To manipulate unifix cubes to show the process of regrouping or renaming
29. To identify hours and half hours on the clock
30. To do 25 problems with 70% accuracy in one minute
31. To demonstrate counting objects by 10's and ones
32. To demonstrate arranging pattern blocks to cover a certain cue
33. To identify and read maps with symbols
34. To demonstrate time intervals
35. To identify what elapsed time is
36. To get 70% accuracy and higher on math addition and subtraction facts
37. To tabulate numbers in a column
38. To identify addition and subtraction facts to 14
39. To complete a one-minute addition drill
40. To be able to write dictated money amounts to a dollar
41. To be able demonstrate counting by 5's, 10's & 25's
42. To demonstrate carrying and place value
43. To identify and count pennies, dimes, nickels, and dimes

44. To count and compare money amounts to \$1.00 and demonstrate their knowledge by identifying the greater amounts
45. To demonstrate a class graph using various Christmas objects
46. To identify various coins i.e.: penny, nickel, quarter and count amounts to a dollar
47. To identify equivalent amounts of money
48. To count monies, purchase items and identify amounts left
49. To compare shaded parts within groups of objects to tell the fraction that is shaded
50. To identify the process of probability by interpreting circle graphs and the probability of the spinner landing in each area on the graph
51. To locate numbers in a Venn graph that satisfies certain criteria
52. To perform the operations of addition and subtraction regrouping
53. To identify geometric shapes - cube, rectangular solids, sphere, and cylinder
54. To complete word problems with the operations of addition and subtraction of two digits
55. To interpret a picture showing hundreds, tens, and ones and write numerals for the picture in two ways: the place value way and the numeral way
56. To read the place values of a numeral, associate the values and write the numeral
57. To write numerals in the expanded form $200+30+4=234$
58. To associate and write a numeral in its word form
59. To match numerals with its expanded form
60. To locate and circle numerals in various place value positions
61. To write numbers that comes just before and just after and between given numbers
62. To draw a greater than and less than sign to complete given numbers

Presentation Methods:

- Hands on/Manipulatives
- Games
- Workbook
- Computer-Math Voyager
- Touch Math worksheets for numbers and money

Evaluation and Grading Methods:

- Mental math drill 1 day per week
- Timed 1 minute tests for addition/subtraction facts
- Written tests at end of units
- Worksheets grades
- Teacher Observation during hands on activities

Enrichment and/or Supplemental Activities:

- Making paper airplanes measuring cm. before, during and after it is made, and then measure distance it flies in meters.
- Making recipes in class using measuring cups, spoons, etc.
- Using liquid/solid measuring utensils outside and measure water and rice separately.
- Frisbee throwing contest (using small ones) including measuring the distances.
- Use small individual clocks to match my large clock.
- Mental math activities: One minute drill on 20 addition facts and later on subtraction facts.
- Pumpkin Math-estimation of size, circumference and weight.

- Apple Graphs
- Math Their Way activities - place value boards, patterning, counting and sorting
- Box It, Seasonal math activities
- Work jobs
- Math dot to dot worksheets
- Ed Helper Math Papers
- Christmas Tree Math