

**Grace Christian Academy
Course Description**

Course Title: Kindergarten Math
Course Length: Full Year

Class Meetings (Per Week): Daily
Textbook: Math K5 for Christian Schools
BJU Press

General Course Description: Manipulative math activities guide and develop understanding prior to mastery of computational procedures.

Biblical Principles:

Those who make fun of wisdom look for it and do not find it, but knowledge comes easily to those with understanding. (Proverbs 14:6)

So teach us to number our days that we may gain a heart of wisdom. (Psalms 90:2)

Let all things be done decently and in order. (I Corinthians 14:40)

General Course Content:

1st Quarter:

Numbers 1-20
Writing Numerals 0-20
Patterns
Geometry (Solid Shapes)
Classifying

2nd Quarter:

Time
Money
Numbers 1-39
Calendar
Classifying

3rd Quarter:

Addition
Subtraction
Measuring
Writing Numerals 1-39

4th Quarter:

Numbers 40-100
Measurement
Fractions
Addition
Subtraction

Related Objectives/Learner Outcomes:

The student will learn to:

1. Count objects
2. Identify dot patterns for numbers 1-10
3. Identify numeral patterns

4. Match numerals with sets
5. To count 5 objects and make sets of 5
6. Identify a graph
7. Read a graph
8. Graph 5 objects
9. Identify numerals 1-20 and make sets of each
10. Identify a circle and circular objects (sphere)
11. Identify a rectangle and rectangular objects
12. Distinguish between solid shapes and give names (sphere, cone, cube)
13. Identify a square and square objects (cube, block)
14. Identify a triangle and triangle objects (cone)
15. Demonstrate patterns using snap and clap
16. Copy a pattern using objects
17. Extend a pattern using objects
18. Write 1-10 using the MTW mode
19. Create piles of 10 counters (20,30,40,50)
20. Write sequence of days and events, first to last,
21. Connect the dots 1-10, 1-20
22. Count objects and write amount 1-100
23. Identify the different parts of a clock: face, hands, numerals
24. Tell time to the hour and demonstrate with own clock
25. Identify the lines of the 100's chart by 10's, 5's, 2's
26. Identify, count, and write 1-100
27. Put 1-100 in order using flash cards
28. Make sets of 10 with unifix cubes and then add on
29. Name the days of the week in order
30. Name the months in numerical order
31. Tell the number of year
32. Use a calendar to identify the day
33. Identify and name the four seasons
34. Match the seasons to the months
35. Name coins by sight
36. Name the value of the coins i.e.: 1 cent, 10 cent etc.
37. Count by 5's and 10's
38. Counting by value; pennies, nickels, and dimes (paper coins)
39. Identify heavier objects using real objects (heavy-light)
40. Identify lighter objects using real objects
41. Identify the container that holds more (more, less)
42. Measure objects using counters to determine height and distance
43. Identify long, longer, and longest
44. Identify short, shorter, and shortest
45. Arrange objects in order by height and weight
46. Measure height using non-standard unit – paper clips, peanuts, etc.
47. Measure distance with non-standard unit – unifix cubes, shoes, etc.
48. Measure using inches – distance and height
49. Locate and identify whole and half, divided equally

50. Name shapes and tell how many parts are in each shape
51. Match fraction with the right parts
52. Demonstrate addition and subtraction stories with flannel board and determine totals
53. Form combinations (write equations) and read them
54. Accurately use work mats and counters with addition and subtraction stories
55. Correctly write the answer to a combination (How many in all? How many are left?)
56. Define the word sum
57. Tell addition and subtraction stories according to equations
58. Identify the minus, plus and equal signs
59. Identify horizontal and vertical equations
60. Name the number that comes before and after a number card shown to student
61. Order number's to 100

Presentation Methods:

- Teacher Instruction and Demonstrations
- Hands on materials/manipulatives (about 20 sets)
- Games
- Workbooks
- Read aloud books (connecting literature and math)

Evaluation and Grading Methods:

- Written tests at end of units
- Worksheet grades
- Observation during hands on activities
- Quarterly one-on-one checkups
- Grading Methods:

E = Exceeds Expectations	+ = Commendable
M = Meets Expectations	√ = Acceptable
N = Needs Further Development	— = Area of Concern

Enrichment and/or Supplemental Activities:

- Individual chalkboards for numbers writing
- Make number books
- Dice for counting and number writing games
- Wooden number puzzles 1-20, Number Bingo 1-20
- Pattern calendar – “helper of the day” adds number daily
- Counters for counting, sorting, adding, subtraction and patterning
- Cardboard money, demonstration clock and individual student clocks
- Teaching Resources: Math Their Way Curriculum, Best Math Book by Richard Scarry
- Unifix cubes, pattern blocks, geoboards, number magnets
- Computer: Windows/Mac: Dr. Seuss Kindergarten:
- Ordering and sequencing of events, objects, pictures of a story
- Charts –coins, 100's chart, shapes, calendar and fractions
- Flashcards -used for drill, place in order, sort by 20's, 30's, etc., before and after, matching