

Grade 2 Math Syllabus

Course Description: This course builds upon the foundations of mathematics introduced in grade 1, including numbers and operations, geometry, and measurement. The course aims to deepen students' understanding of mathematical concepts and skills through hands-on activities and real-world problems.

Major Topics:

1. Numbers and Operations
2. Geometry
3. Measurement
4. Data Analysis and Probability

Subtopics (with specific objectives):

1. Numbers and Operations:

- Understanding and using numbers up to 100
- Understanding and performing addition and subtraction within 100
- Understanding and using basic facts for addition and subtraction within 20
- Understanding and using mental math strategies for addition and subtraction
- Understanding and performing basic multiplication and division facts
- Understanding and solving word problems involving addition, subtraction, multiplication, and division

2. Geometry:

- Identifying and naming two-dimensional and three-dimensional shapes
- Understanding and using basic concepts of shape (e.g. sides, vertices, faces)
- Understanding and using basic concepts of size and position (e.g. big, small, taller, shorter)
- Understanding and using basic concepts of symmetry and reflection
- Understanding and using basic concepts of direction and angles

3. Measurement:

- Understanding and using standard units of length, weight, and capacity
- Understanding and using standard units of time
- Understanding and using non-standard units of measurement
- Understanding and using basic concepts of money
- Understanding and using basic concepts of temperature
- Understanding and using basic concepts of perimeter and area

4. Data Analysis and Probability:

- Understanding and creating simple graphs and charts
- Understanding and using basic concepts of data analysis (e.g. sorting, counting, grouping)
- Understanding and using basic concepts of probability (e.g. likely, unlikely, certain)

Overall Objectives:

- To deepen students' understanding of mathematical concepts and skills
- To use hands-on activities and real-world problems to reinforce learning
- To develop critical thinking and problem-solving skills
- To build confidence and a positive attitude towards mathematics
- To lay a strong foundation for future mathematical studies.

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