

The mathematics program presents concepts that are introduced, developed or mastered throughout the elementary school years. Repetition throughout the year is needed to reinforce and build upon previously learned concepts. Problem solving is incorporated throughout the school year through each topic area.

Things you can do at Home to Support your Student

Parental Support

- Promote school attendance
- Support student responsibility
- Encourage mathematic awareness
- Participate in the educational process
- Communicate with the school

“Communication begins at home”

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Manchester School District

A Parent's Guide to Elementary School Mathematics Curriculum



GRADE THREE

**Manchester School District
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Elementary School Mathematics

Grade 3

Trimester 1

EM-Units 1, 2, 3, 4

Number and Operations

- Identify, recognize, order and compare numbers 0-999
- Addition and subtraction of 3-digit numbers with regrouping
- Write expanded and standard form of a number
- Fact families of addition and subtraction (inverse operations)
- Demonstrate relationship between addition and multiplication using arrays, pictures, models and words
- Multiplication facts (0, 1, 2, 5, 10)
- Mentally add and subtract numbers to 20
Introduce division
- Number properties of addition (odd/even)
- Field properties (identity, associative and commutative for addition)

Geometry and Measurement

- Perimeter of a polygon
- Area of a rectangle using a grid
Time to 5 minute intervals
Use positional words to give and follow directions on a map or coordinate grid
Review money value, make and count change

Functions and Algebra

- Extend existing patterns
- Find missing elements of patterns
- Find the value that will make an equation true

Data, Statistics and Probability

Trimester 2

EM-Units 5, 6, 7, 8,

Number and Operations

- Place value to thousands
- Mental math: whole number 0-999
- Identify, compare, order, and find equivalent fractions (halves, thirds, fourths, sixths and eighths) using models, number lines and pictures
- Decimals related to money
- Connect decimals to fractions
- Estimate 0-999
- Mental math: Whole numbers 0-999
- Number properties of multiplication (odd/even and zero property)
- Field Properties (identity and commutative for multiplication)

Geometry and Measurement

- Identify, sort and classify polygons (triangles, squares, rectangles, rhombuses, trapezoids, hexagons) and circles
- Build and break down 3-dimensional objects (rectangular prism, sphere, cube and cylinder)
- Copy, compare and draw polygons and circles to demonstrate similarity
- Measurement: length (including metric), capacity, mass, temperature and weight

Functions and Algebra

Data, Statistics and Probability

Trimester 3

EM-Units 9, 10, 11, 12

Number and Operations

- Addition and subtraction of decimals in relation to money
- Fact families of multiplication and division
- Multiplication facts (3, 4, 6, 7, 8, 9, 11, 12)

Geometry and Measurement

- Calendar patterns (day, week, month, year, 24 hrs = 1 day, 7 days = 1 week, 365 days = 1 year)
- Elapsed time to whole and half- hour increments

Functions and Algebra

Data, Statistics and Probability

- Collect, organize, record, interpret, analyze and display data to make predictions and answer questions on tables, graphs and charts
- Patterns, trends and distributions in data
- Probability: use more likely, less likely, equally likely, certain, or impossible to make and test predictions
- Determine if a game is fair