

7th Grade Math Curriculum Roadmap

Pacing Guide

1st Quarter

Number Sense – State Goal 6

- Review representations and ordering, computation, operations, estimation and properties
 - Order of operations with decimals, percents, fractions, and exponents
 - Compare and order fractions, decimals, and percents and place on a number line.
 - Computation, representation, and estimation with powers, exponents, scientific notation, squares, and square roots
- Calculator and ruler usage
- Ratio and Proportion including similarity and unit rate
- Percents: the “three types” of problems and sales tax, discounts, and percent of change
- Review of Integers including absolute value, ordering and comparing, adding, subtracting, multiplying and dividing.
- Extended Response Practice (use $\frac{1}{2}$ days)

2nd Quarter

Algebra – State Goal 8

- Variables and expressions
- Simplify expressions by combining like terms
- Solving 1-step and 2- step equations
- Writing equations
- Graphing an equation on a coordinate grid
- Tables, graphs and equations: be able to move fluently between the three
- Solving 1 and 2 step inequalities and be able to plot answer on a number line
- Describe how the change in one variable relates to a change in the second variable (ex.: age and height, $d = rt$)
- Extended Response Practice (use $\frac{1}{2}$ days)

3rd Quarter
Measurement – State Goal 7
Geometry – State Goal 9

- Geometry
 - Review basic vocabulary
 - Stretching and shrinking
 - Perimeter (review polygons & teach complex figures)
 - Area (review polygons & teach complex figures)
 - Surface area & nets
 - Volume of a rectangular prism
 - Area and circumference of circles
- Measurement
 - using a ruler
 - unit conversions w/in same measurement system
 - metric (see science teacher to coordinate)
- Extended Response Practice (use ½ days)

4th Quarter
Data Analysis, Statistics, and Probability – State Goal 10
Problem Solving – State Application of Learning

- Patterns, sequences, tables, find the rule
- Data Analysis and Statistics
- Probability
- Review and practice Problem Solving Strategies
 - Reasonable answers
 - Use a graph, chart, drawing or model
 - Make a list
 - Patterns and sequences
 - Work backwards
 - Process of elimination
 - Guess and check
 - Use a simpler problem
- Extended Response Practice (use ½ days)

- ❖ *This is not intended as a skills checklist, but rather a guide.*
- ❖ *Problem solving is not an isolated skill but should be integrated throughout the year.*
- ❖ *Daily review and practice (bell work, end of class work, etc.) is suggested.*
- ❖ *Using ½ days to practice extended response is suggested.*