

**Third Grade Mathematics MA.3.****Big Idea 1: Algebra**

- \_\_\_ A.1.1 Model multiplication and division
- \_\_\_ A.1.2 Solve multiplication/division fact problems
- \_\_\_ A.1.3 Apply division/multiplication as inverse operations

**Big Idea 2: Algebra**

- \_\_\_ A.2.1 Represent fractions using area, set, linear models
- \_\_\_ A.2.2 Describe size of fraction relates to # of equal pieces
- \_\_\_ A.2.3 Compare and order fractions
- \_\_\_ A.2.4 Use models to represent equivalent fractions

**Big Idea 3: Geometry**

- \_\_\_ G.3.1 Classify 2-dimensional shapes using sides / angles
- \_\_\_ G.3.2 Compose/transform polygon to make other polygon
- \_\_\_ G.3.3 Build,analyze 2-dimensional shapes from several orientations to examine and apply congruence and symmetry

**Supporting Idea 4: Algebra**

- \_\_\_ A.4.1 Create /represent patterns using words/graphs

**Supporting Idea 5: Geometry and Measurement**

- \_\_\_ G.5.1 Use correct units to solve problems in perimeter
- \_\_\_ G.5.2 Measure objects using fractional parts of linear units such as 1/2, 1/4, and 1/10
- \_\_\_ G.5.3 Tell time to the nearest minute and to the nearest quarter hour, and determine the amount of time elapsed

**Supporting Idea 6: Number and Operations**

- \_\_\_ A.6.1 Represent, compute, estimate, and solve problems using numbers through hundred thousands.
- \_\_\_ A.6.2 Solve non-routine problems by searching patterns

**Fourth Grade Mathematics MA.4.****Big Idea 1: Algebra**

- \_\_\_ A.1.1 Use multiplication to problem solve and recall facts
- \_\_\_ A.1.2 Multiply through four digits fluently

**Big Idea 2: Algebra**

- \_\_\_ A.2.1 Use decimals through thousandths place
- \_\_\_ A.2.2 Describe decimals as extension of base ten system
- \_\_\_ A.2.3 Relate equivalent fractions and decimals
- \_\_\_ A.2.4 Compare/order decimals

**Big Idea 3: Geometry**

- \_\_\_ G.3.1 Describe and determine area as the number of same-sized units that cover a region in the plane
- \_\_\_ G.3.2 Justify formula area rectangle "area=base \* height"
- \_\_\_ G.3.3 Estimate and solve real-world area problems

**Supporting Idea 4: Algebra**

- \_\_\_ A.4.1 Use all four operations to describe patterns
- \_\_\_ A.4.2 Describe mathematics relationships using expressions, equations, and visual representations
- \_\_\_ A.4.3 Recognize and write algebraic expressions for functions with two operations

**Supporting Idea 5: Geometry and Measurement**

- \_\_\_ G.5.1 Classify angles of two-dimensional shapes using benchmark angles (45°, 90°, 180°, and 360°)
- \_\_\_ G.5.2 Identify the results of translations, reflections, and rotations of 45, 90, 180, 270, and 360 degrees
- \_\_\_ G.5.3 Identify and build a three-dimensional object from a two-dimensional representation of that object and vice versa

**Supporting Idea 6: Number and Operations**

- \_\_\_ A.6.1 Use / represent numbers through millions
- \_\_\_ A.6.2 Use models to represent division as: the inverse of multiplication, partitioning, successive subtraction
- \_\_\_ A.6.3 Generate equivalent fractions and simplify fractions
- \_\_\_ A.6.4 Determine factors /multiples for whole numbers
- \_\_\_ A.6.5 Relate halves, fourths, tenths to decimals & percents
- \_\_\_ A.6.6 Estimate and describe reasonableness of estimates

**Fifth Grade Mathematics MA.5.****Big Idea 1: Algebra**

- \_\_\_ A.1.1 Describe process of finding quotients involving multi-digit dividends using models, place value, properties, and the relationship of division to multiplication.
- \_\_\_ A.1.2 Estimate quotients or calculate them mentally depending on the context and numbers involved
- \_\_\_ A.1.3 Interpret solutions to division situations including those with remainders depending on the context of the problem
- \_\_\_ A.1.4 Divide multi-digit whole numbers fluently, including solving real-world problems, demonstrating understanding of the standard algorithm, check the reasonableness of results

**Big Idea 2: Algebra**

- \_\_\_ A.2.1 Use addition/subtraction of decimals/fractions with like/unlike denominators using models,place value,properties
- \_\_\_ A.2.2 Add/subtract fractions / decimals fluently, and verify the reasonableness of results, including in problem situations
- \_\_\_ A.2.3 Make reasonable estimates of fraction and decimal sums and differences, and use techniques for rounding
- \_\_\_ A.2.4 Determine the prime factorization of numbers

**Big Idea 3: Geometry**

- \_\_\_ G.3.1 Compare 2-dimensional figures /3-dimensional solids, include number of edges, faces, vertices, types of faces
- \_\_\_ G.3.2 Describe, define, determine surface area / volume of prisms using appropriate units & selecting strategies/ tools

**Supporting Idea 4: Algebra**

- \_\_\_ A.4.1 Use properties of equality to solve numerical & real world situations
- \_\_\_ A.4.2 Construct and describe a graph showing continuous data, such as a graph of a quantity that changes over time

**Supporting Idea 5: Geometry and Measurement**

- \_\_\_ G.5.1 Identify /plot ordered pairs on first quadrant of the coordinate plane
- \_\_\_ G.5.2 Compare, contrast, convert units of measure within the same dimension (length, mass, or time) to solve problems
- \_\_\_ G.5.3 Solve problems requiring attention to approximation, selection of appropriate measuring tools, and precision of measurement
- \_\_\_ G.5.4 Derive / apply formulas for areas of parallelograms, triangles, and trapezoids from the area of a rectangle.

**Supporting Idea 6: Number and Operations**

- \_\_\_ A.6.1 Identify and relate prime and composite numbers, factors, and multiples within the context of fractions
- \_\_\_ A.6.2 Use the order of operations to simplify expressions which include exponents and parentheses
- \_\_\_ A.6.3 Describe real situations in positive/negative number
- \_\_\_ A.6.4 Compare, order, and graph integers
- \_\_\_ A.6.5 Solve non-routine problems use strategies including "solving a simpler problem" and "guess, check, and revise"

**Supporting Idea 7: Data Analysis**

- \_\_\_ A.7.1 Construct /analyze line graphs & double bar graphs
- \_\_\_ A.7.2 Differentiate between continuous and discrete data, and determine ways to represent those using graphs/ diagrams



**Fifth Grade Social Studies SS.5.**

**American History**

- \_\_\_ A.1.1 Use primary/secondary sources to know history
- \_\_\_ A.1.2 Use timelines to spot American History time periods
- \_\_\_ A.2.1 Compare cultural aspects of ancient Am. civilization
- \_\_\_ A.2.2 Identify Native Am tribes from all over N America
- \_\_\_ A.2.3 Compare cultural aspects of Native Am tribes
- \_\_\_ A.3.1 Describe technology developments that shared European exploration
- \_\_\_ A.3.2 Investigate the European Explorers
- \_\_\_ A.3.3 Describe interactions for control of North America
- \_\_\_ A.4.1 Identify the economic, political and socio-cultural motivation for colonial settlement
- \_\_\_ A.4.2 Compare New England, Middle, Southern colonies
- \_\_\_ A.4.3 Identify significant individuals responsible for dev. of the New England, Middle, and Southern colonies
- \_\_\_ A.4.4 Demonstrate understanding of political, economic, and social aspects of daily colonial life in the thirteen colonies
- \_\_\_ A.4.5 Explain the importance of Triangular Trade linking Africa, the West Indies, the British Colonies, and Europe
- \_\_\_ A.4.6 Describe intro, impact, role of slavery in the colonies
- \_\_\_ A.5.1 Identify significant events leading up to Am Revo
- \_\_\_ A.5.2 Identify individuals who played a role in Am Revo
- \_\_\_ A.5.3 Explain the significance of historical documents
- \_\_\_ A.5.4 Study changing roles/impact of women in Am Revo
- \_\_\_ A.5.5 Compare battles/military campaigns of Am Revo
- \_\_\_ A.5.6 Identify foreign alliances to the outcome of Revo
- \_\_\_ A.5.7 Explain economic, military, political factors which led to the end of the Revolutionary War
- \_\_\_ A.5.8 Evaluate the hardships resulting from the Am Revol
- \_\_\_ A.5.9 Discuss land policies under Confederate Congress
- \_\_\_ A.5.10 Examine the significance of the Constitution
- \_\_\_ A.6.1 Describe causes/effects of the Louisiana Purchase
- \_\_\_ A.6.2 Identify roles of people during westward expansion
- \_\_\_ A.6.3 Examine 19th century advancements in transportation/communication
- \_\_\_ A.6.4 Explain importance of explorations west of Mississippi River
- \_\_\_ A.6.5 Identify the causes and effects of the War of 1812
- \_\_\_ A.6.6 Explain how west expansion affected Native Am
- \_\_\_ A.6.7 Discuss the concept of Manifest Destiny
- \_\_\_ A.6.8 Describe causes/effects of Missouri Compromise
- \_\_\_ A.6.9 Describe settlers hardships on overland trails west

**Geography**

- \_\_\_ G.1.1 Read current/historical info using geographic tools
- \_\_\_ G.1.2 Use latitude and longitude to locate places
- \_\_\_ G.1.3 Identify US physical features on N America map
- \_\_\_ G.1.4 Construct maps/graphs to display geographic info
- \_\_\_ G.1.5 Identify original 13 colonies on a map of N America
- \_\_\_ G.1.6 Locate states, capitals, US Territories on a map
- \_\_\_ G.2.1 Describe factors influence boundary changes in US
- \_\_\_ G.3.1 Describe the impact that past natural events have had on human and physical environments in US through 1850
- \_\_\_ G.4.1 Use geo knowledge/skills to discuss current events
- \_\_\_ G.4.2 Use geo skills for local, state, national problems

**Economics**

- \_\_\_ E.1.1 Identify how trade promoted economic growth in North America from pre-Columbian times to 1850.

- \_\_\_ E.1.2 Describe a market economy, give examples of how the colonial/early American economy exhibited characteristics
- \_\_\_ E.1.3 Trace development of technology & impact of major inventions on business productivity during early dev of the US
- \_\_\_ E.2.1 Recognize the positive/negative effects of voluntary trade among Native Americans, European explorers, colonists

**Civics and Government**

- \_\_\_ C.1.1 Explain how / why the US government was created
- \_\_\_ C.1.2 Define a constitution, and discuss its purposes
- \_\_\_ C.1.3 Explain the definition and origin of rights
- \_\_\_ C.1.4 Identify the Declaration of Independence's grievances and Articles of Confederation's weaknesses
- \_\_\_ C.1.5 Describe how concerns about individual rights led to the inclusion of the Bill of Rights in the U.S. Constitution
- \_\_\_ C.1.6 Compare Federalist/Anti-Federalist views of govt
- \_\_\_ C.2.1 Differentiate political ideas of Patriots, Loyalists, and "undecideds" during the American Revolution
- \_\_\_ C.2.2 Compare forms of political participation in the colonial period to today
- \_\_\_ C.2.3 Analyze how the Constitution has expanded voting rights from our nation's early history to today
- \_\_\_ C.2.4 Evaluate importance of civic responsibilities in American democracy
- \_\_\_ C.2.5 Distinguish between state and local government
- \_\_\_ C.3.1 Describe organizational structure and powers of federal govt as defined in Articles I, II, III of the US Constitution
- \_\_\_ C.3.2 Explain how popular sovereignty, rule of law, separation of powers, checks and balances, federalism, and individual rights limit the powers of the federal government
- \_\_\_ C.3.3 Know powers of federal govt & those for the states
- \_\_\_ C.3.4 Find amendment process in Article V of Constitution
- \_\_\_ C.3.5 Identify rights of citizens as stated in Bill of Rights
- \_\_\_ C.3.6 Examine courts interpreting laws/settling conflicts