

Concept Map

Grade:	English	Math	Science	Social Studies
1	"Retell stories, including key details, and demonstrate understanding of their central message or lesson."	"Represent and solve problems involving addition and subtraction. Add and subtract within 20. Reason with shapes and their attributes. Use place value understanding and properties of operations to add and subtract. Tell and write time."	"Describing Patterns. Earth's Place in the Universe. Inheritance and Variation of Traits."	"Major historical events, figures, and symbols related to the United States of America and its national holidays and why they are important to Americans."
2	"Ask and answer such questions as who, what, where, when, why, and how. Recount stories from diverse cultures, and determine their central message, lesson, or moral."	See 1 & "Work with equal groups of objects to gain foundations for multiplication."	Basic landforms, food chain interactions, and introduction to matter and properties.	"United States history, geography, economics, and government by studying more about who Americans are and where they came from. Help students understand that American citizenship embraces all kinds of people, regardless of race, ethnicity, gender, religion, and national origin. American students come from all countries and continents in the world."
3	"Identify elements of fiction (e.g., characters, setting, plot, problem, solution) and elements of poetry (e.g., rhyme, rhythm, figurative language, alliteration, onomatopoeia)."	"Understand properties of multiplication and the relationship between multiplication and division. Multiply and divide within 100. Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects." Also understand perimeter and area.	Human interaction with environment. How we observe: thermometers, fossils, and other tools.	"History of Massachusetts from the time of the arrival of the Pilgrims."

4	"Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text."	"Use the four operations with whole numbers to solve problems. Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. Understand decimal notation for fractions, and compare decimal fractions. Geometric measurement: Understand concepts of angle and measure angles."	Sediment, fossils, earthquakes, fuel (renewable and nonrenewable), animal adaptations, energy, and electricity.	"Five major concepts: location, place, human interaction with the environment, movement, and regions. In addition, they learn about the geography and people of contemporary Mexico and Canada."
5	"Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text. Compare and contrast two or more characters, settings, or events in a story drawing on specific details in the text."	"Use equivalent fractions as a strategy to add and subtract fractions. Apply and extend previous understandings of multiplication and division to multiply and divide fractions. Gain familiarity with concepts of positive and negative integers. Graph points on the coordinate plane to solve real-world and mathematical problems."	Explaining relationship between Earth, Sun, and the Moon. Also their effects on Earth (tides, seasons, day and night). Water cycle. Food web. States of Matter.	"Students study the major pre-Columbian civilizations in the New World; the 15th and 16th century European explorations around the world, in the western hemisphere, and in North America in particular; the earliest settlements in North America; and the political, economic, and social development of the English colonies in the 17th and 18th centuries. They also study the early development of democratic institutions and ideas, including the ideas and events that led to the independence of the original 13 colonies and the formation of a national government under the U.S. Constitution."
6	"Determine a theme or central idea of a text and analyze its development over the course of the text; provide an objective summary of the text."	"Understand ratio concepts and use ratio reasoning to solve problems. Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative relationships between dependent and independent variables."	In depth life science.	"Learn about each continent in an order that reflects, first, the early development of the river valley civilizations and then the later development of maritime civilizations in the Mediterranean area and in Northern and Western Europe."

7	See 6	"Draw, construct and describe geometrical figures and describe the relationships between them. Solve real-life and mathematical problems involving angle measure, area, surface area, and volume."	In depth Earth science.	"Study the origins of human beings in Africa and the ancient and classical civilizations that flourished in the Mediterranean area. They study the religions, governments, trade, philosophies, and art of these civilizations, as well as the powerful ideas that arose in the ancient world and profoundly shaped the course of world history."
8	"Determine a theme or central idea of a text and analyze its development over the course of the text, including its relationship to the characters, setting, and plot; provide an objective summary of the text."	"Understand the connections between proportional relationships, lines, and linear equations. Use functions to model relationships between quantities. Understand and apply the Pythagorean Theorem."	In depth physical science (basic physics and chemistry).	US History until end of the Civil War.
9	See 9	Geometry	Biology	See 8
10		Algebra 1&2	Chemistry	U.S. History after Civil War

11	"Determine two or more themes or central ideas of a text and analyze their development over the course of the text, including how they interact and build on one another to produce a complex account; provide an objective summary of the text. Analyze the impact of the author's choices regarding how to develop and relate elements of a story."	Precalculus	Miscellaneous	World History.
12	See 11	Calculus	Miscellaneous	Psychology.
<p style="text-align: center;">Loosely based on the Massachusetts Curriculum Frameworks Compiled by Nicolas Blaisdell. March 2016.</p>				