

7th – 8th Grade Year 2 Overview

Subject	Grade-Level Focus
Mathematics	<p>7th Grade Math: Use mathematics to analyze observational data, generating statistical trends. Reason abstractly and quantitatively using algebraic methods and statistics. Apply mathematics to art using scale, perspective, and geometry.</p> <p>8th Grade Math: Apply theory of equations to analyze trends and patterns and make predictions. Demonstrate an understanding of mathematics as a language that adheres to rules and uses specific, universal symbols. Explore, create, and design with the fundamental geometric figures of Euclidean Space: the five Platonic Solids.</p>
Science	<p>Apply scientific methodology and engineering practices to explore the structure and form of life, natural phenomena, technology, and the human experience.</p>
English Language Arts	<p>Explore language in different contexts and how it is used to convey literal and abstract meaning. Apply an understanding of the limitations of language and explore a combination of methods and mediums to communicate.</p>
Social Studies	<p>Connect with the landscape of the southwest by studying the Americas past and present and exploring the evolution of place over time. Reference tragedy (holocaust, internment camps, WWII) as a basis for advocating for human rights and peace among different cultures.</p>
Outdoor Education	<p>Participates cooperatively in outdoor activities and learning experiences with persons with diverse abilities and backgrounds.</p>
Problem-Solving, Science, and Engineering Practices	<p>Apply grade-level practices for solving problems, inquiry, and engineering solutions.</p>

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Expedition	Expedition Description
Geography of the Southwest	Students obtain, evaluate, and communicate information about how geography of our region has shaped the cultural and social development of the southwest.
Stories of the Southwest	From the lens of storytelling, students evaluate the impact of human activities on geography and geography on human activities in an extension of the previous expedition. Students explore how stories integrate and share scientific and historical events and experiences in various storytelling methods.
Agriculture	Students explore different traditional agricultural methods to engage with culture and the landscape. Agricultural growth and development is analyzed to explain human migration, settlement, and development. Students practice agricultural techniques to cultivate the landscape of GCOA and learn about soil health.
World War II	Students investigate resources from the World War II era to convey historical events in localized contexts. The impact of World War II on science, society, and human civilization is studied and analyzed to portray a deeper understanding of our current events.
Navajo Code Talkers	Students explore local participation in the World War II era by studying the Navajo Code Talkers and their instrumental role in the war. Students take a deep dive into language and codes in this expedition and the impact that language has had on culture.
Cryptology and Symbols	Students take a more specific look into cryptology and symbols in this expedition as they work on generating their own codes, and cracking each others. Students explore bias of interpretation and assumptions when deciphering symbols and codes. Technological developments are analyzed for their impact on both generating and deciphering codes.