

## K-5 Curriculum Guide - - - Grade Four

Literacy	Social Studies	Mathematics	Science
<p>The Fourth Grade Literacy Curriculum focuses on the following Common Core Standards for Literacy:</p> <ul style="list-style-type: none"> <li>▪ Reading Standards for Literature</li> <li>▪ Reading Standards for Informational Text</li> <li>▪ Foundation Skills</li> <li>▪ Writing</li> <li>▪ Speaking and Listening</li> </ul> <p>Throughout Fourth Grade, students develop the following performance indicators through a workshop model. <b>READING:</b></p> <ul style="list-style-type: none"> <li>▪ Reads with accuracy and fluency</li> <li>▪ Demonstrates knowledge and applies grade level vocabulary</li> <li>▪ Demonstrates literal comprehension skills</li> <li>▪ Demonstrates inferential comprehension skills</li> <li>▪ Uses specific text based evidence to support answers</li> </ul> <p><b>WRITING</b></p> <ul style="list-style-type: none"> <li>▪ Generates, organizes, and communicates ideas</li> <li>▪ Develops topic using relevant supporting details, examples, and text evidence</li> <li>▪ Demonstrates the conventions of writing for grammar, capitalization, punctuation, and spelling</li> </ul> <p><b>SPEAKING/LISTENING:</b></p> <ul style="list-style-type: none"> <li>▪ Listens for information and responds appropriately</li> <li>▪ Demonstrates knowledge of topics through collaborative group discussions, oral presentations and/or media sources</li> </ul>	<p>The grade four social studies program highlights the political institutions and historic development of communities with connections to New York State and the United States. The study of local government emphasizes the structure and function of the different branches of government and the roles of civic leaders. The historic study of local communities focuses on the social/cultural, political, and economic factors that helped to shape these communities. Students study about the significant people, places, events, and issues that influenced life in their local communities. Students investigate local events and issues and connect them to national events and issues.</p> <p>The following chronological framework allows students to organize information about New York history and connect it to the United States:</p> <ul style="list-style-type: none"> <li>▪ Native American Indians of New York State</li> <li>▪ European encounter: Three worlds (Europe, Africa, and the Americas) meet in the Americas</li> <li>▪ Colonial and Revolutionary periods</li> <li>▪ The formation and documents of a new nation</li> <li>▪ Industrial growth and expansion</li> <li>▪ Government – local and State</li> <li>▪ Identifies, reads, and interprets different kinds of maps</li> <li>▪ Creating timelines</li> </ul>	<p>The Fourth Grade Mathematics Curriculum focuses on the following Common Core Standards for Mathematics:</p> <ul style="list-style-type: none"> <li>▪ Operations and Algebraic Thinking</li> <li>▪ Number and Operations in Base Ten</li> <li>▪ Number and Operations - Fractions</li> <li>▪ Measurement and Data</li> <li>▪ Geometry</li> </ul> <p>Students study the following major concepts and skills in this grade:</p> <ul style="list-style-type: none"> <li>▪ Use the four operations with whole numbers to solve problems</li> <li>▪ Gain familiarity with factors and multiples</li> <li>▪ Generalize place value understanding for multi-digit whole numbers</li> <li>▪ Use place value understanding and properties of operations to perform multi-digit arithmetic</li> <li>▪ Extend understanding of fraction equivalence and ordering</li> <li>▪ Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers</li> <li>▪ Understand decimal notation for fractions and compare decimal fractions</li> <li>▪ Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit</li> <li>▪ Represent and interpret data</li> <li>▪ Geometric measurement: understand concepts of angle and measure angles</li> <li>▪ Draw and identify lines and angles, and classify shapes by properties of their lines and angles</li> </ul> <div style="text-align: center; margin-top: 20px;">  </div>	<p>Fourth grade undertakes a literacy-integrated, NYSSLS aligned, yearlong thematic study that encompasses Earth, Life and Physical Science.</p> <p><i>Living with a Star: The Sun, Energy and Life</i></p> <p>Students learn science practices, core disciplinary ideas and cross-cutting concepts by</p> <ul style="list-style-type: none"> <li>• Observing sun and star patterns over the course of a day and year</li> <li>• Investigating energy transformations involving photosynthesis, light, heat, sound and motion</li> <li>• Examining plant and animal adaptations that harness energy for growth, information and communication</li> <li>• Analyzing environmental and societal impacts of different energy sources</li> <li>• STEAM unit: <i>Solar Ovens</i></li> </ul>