

**Eighth Grade**

<p><b>Language Arts:</b></p> <ul style="list-style-type: none"> <li>• to read major works of fictions and non-fiction from all over the world and from different time periods</li> <li>• how to understand what they read and evaluate an author’s assumptions and claims</li> <li>• to conduct research that requires the analysis of resources and accurate interpretation of literary and informational text</li> <li>• to strengthen and master writing skills and techniques across a range of writing types and purpose</li> </ul>	<p><b>Science:</b></p> <ul style="list-style-type: none"> <li>• about life and earth and space sciences</li> <li>• multiple exposures to the engineering design, including defining a problem, developing a possible solution, and improving designs</li> <li>• to use inquiry techniques and scientific thinking process of observing, communicating, comparing, collecting, relating inferring and applying</li> </ul>
<p><b>Math:</b></p> <ul style="list-style-type: none"> <li>• unit rates and proportional relationships, connecting these concepts to points on a line ultimately using them to solve linear equations</li> <li>• to solve linear equations by applying algebraic reasoning along with their knowledge of the properties of operations</li> <li>• to expand their understanding of numbers beyond rational numbers to include irrational numbers</li> </ul>	<p><b>Social Studies:</b></p> <ul style="list-style-type: none"> <li>• to study ideas, issues, and major events from the drafting of the U.S. constitution to World War I, with a key focus on America’s constitution</li> <li>• to explore the development of American politics, society, culture and economy throughout the various regions of the United States</li> <li>• about the challenges that faced the nation during critical periods such as the Civil War and Reconstruction</li> </ul>
<p><b>Technology:</b></p> <ul style="list-style-type: none"> <li>• to demonstrate mastery in the use of spreadsheets, multimedia, and presentation tools and digital citizenship</li> <li>• the acceptable uses of technology, copyright, and plagiarism</li> <li>• to use technology in other subject areas such as math to create graphs and data displays, and using geometric software to aid in three-dimensional visualization</li> <li>• about the difference between being a passive bystander versus a brave bystander in cyberbullying situations</li> </ul>	<p><b>Physical Education:</b></p> <ul style="list-style-type: none"> <li>• an expansion of the previous year with a growing emphasis on skills, participation, and team work</li> <li>• standard physical education, teaching sports and other non-traditional approaches to physical education such as gymnastics, dance, yoga, and martial arts</li> </ul>
<p><b>The Arts:</b>  <b>Music:</b></p> <ul style="list-style-type: none"> <li>▪ more demanding scales</li> <li>▪ to identify and define standard notation symbols for pitch, rhythm, dynamics, tempo, articulation and expression</li> <li>▪ how to sing, record play and perform</li> </ul>	<p><b>The Arts:</b>  <b>Theater:</b></p> <ul style="list-style-type: none"> <li>▪ to work toward a full-length production of a play</li> <li>▪ all the elements of acting and production</li> <li>▪ how to perform for other organizations and for the parents</li> </ul>
<p><b>The Arts:</b>  <b>Dance:</b></p> <ul style="list-style-type: none"> <li>▪ how the various elements of music (pulse, tempo, rhythm) become more complex</li> <li>▪ to engage in group problem-solving and choreographed solutions</li> <li>▪ to observe and discuss historical dance styles and forms in performance and on film</li> </ul>	<p><b>The Arts:</b>  <b>Visual Arts:</b></p> <ul style="list-style-type: none"> <li>▪ to develop skills and knowledge about art, powers of observations, perceptual and analytical skills, creativity, technical skills and problem solving abilities</li> <li>▪ to become aware of how visual artists record their culture and reflect history while their artwork remains as unique as the individual human experience</li> </ul>