

**Curriculum at a Glance**  
**Technology, Engineering, STEM, Business and Computers**  
**Computer Applications 7th Grade**

Description: The computer applications course is designed to encourage students to explore and to improve their computer knowledge. The course uses STEM components, follows the ISTE Standards, and focuses on the Common Core Standards. There is an emphasis on creativity, communication, and collaboration amongst their fellow classmates.

<b>Unit Name/Description</b>	<b>Content and/or Skills</b>
Coding	<ul style="list-style-type: none"> <li>● Students will gain the understanding that coding is the basis of all computer activity.</li> <li>● Students will learn how to block coding.</li> <li>● Students will understand coding language and how computers function.</li> <li>● Students will identify connections between the coding unit and their math and science classes.</li> <li>● Students will produce an advanced coding game using a web based coding application.</li> </ul>
Digital Design	<ul style="list-style-type: none"> <li>● The students will use Web based design applications.</li> <li>● Through practice and exploration students will apply the design method using a digital medium.</li> <li>● By using the design method students will develop and create a working prototype using design software and a 3-d printer.</li> <li>● Students will apply math and science skills to solve the design challenges.</li> <li>● Students will develop and create a working prototype using software and a 3-D printer.</li> </ul>
Current District Computer Applications	<ul style="list-style-type: none"> <li>● Communication systems are used to inform, persuade, educate, and entertain.</li> <li>● Apply skills learned in their English, History and Computer classes in their presentations.</li> <li>● Understand how presentation style and public speaking skills impact successful communication.</li> <li>● Explore ways that technology creates issues and impacts the way people live and interact.</li> <li>● Learn and use communication skills by explaining their findings, presenting to the class, and reflecting on the results of their work at the culmination of the unit.</li> </ul>

## Digital Citizenship

- Students will gain knowledge for methods of searching, exploring and interpreting the sites on the Internet for best practices.
- Students will discover and examine the effect that the internet has on the social, cultural and environmental aspects of life.
- To familiarize themselves with all types of online information and media, students will select and analyze websites for authenticity.
- Students will compare, contrast and examine different websites and sources to find information to solve problems.