Grade 7 Computers Curriculum Maps

Grade: 7 **Subject:** Computers	**Unit 1: Master Keyboarding Techniques**
Big Idea/Rationale	The touch method of keyboarding helps to prevent injuries and promotes accuracy and speed
Enduring Understanding (Mastery Objective)	• Students will identify and demonstrate the ten skills that make up ergonomic techniques and demonstrate proper techniques of alpha-numeric keyboard and 10-key pad to promote a healthy life style while using the computer • A tool is only as good as the person using it • Technology is constantly changing and requires continuous learning of new skills • Students will be responsible for preventing injuries while using a computer • Accurate documents reflect one's image and the image of one's company
Essential Questions (Instructional Objective)	• How does good posture help to promote good health? • How does an accurate document promote a positive image? • How does speed influence one's image? • How can you use technology to advance your learning in middle school?
Content (Subject Matter)	• www.typingweb.com
Skills/ Benchmarks (CCSS Standards)	• 8.1.8.A.5 Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems.
Materials and Resources	• Computer, Internet
Notes	

Grade: 7 **Subject:** Computers	**Unit 2: Internet Research Techniques**
Big Idea/Rationale	The Internet can be used to conduct research for school assignments, issues involves with copying from the Internet, selecting appropriate websites for research
Enduring Understanding (Mastery Objective)	• Not everything on the Internet is reliable • Anyone can create a webpage and post it on the Internet • It is important to verify the validity of sources when citing the Internet
Essential Questions (Instructional Objective)	• What is the Internet? • What does a browser do? • Why is bookmarking websites a useful tool? • What is a search engine and what does it do? • Why are .edu and .gov sites reliable? • Why is copying a bad idea?
Content (Subject Matter)	• Browser Basics • Search Engines • Selecting Appropriate Websites • Copying from the Internet
Skills/ Benchmarks (CCSS Standards)	• 8.1.8.A.5 Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. 8.1.8.B.1 Synthesize and publish information about a local or global issue or event on a web-based shared hosted service. 8.1.8.D.1 Model appropriate online behaviors related to cyber safety, cyber bullying, cyber security, and cyber ethics. • 8.1.8.D.2 Summarize the application of fair use and creative commons. • 8.1.8.D.3 Demonstrate how information may be biased on a controversial issue. 8.1.8.E.1 Gather and analyze findings to produce a possible solution for a content-related or real world problem using data collection technology.
Materials and Resources	• LCD Projector, Internet, Worksheets
Notes	

Grade: 7 **Subject:** Computers	**Unit 3: Spreadsheets**
Big Idea/Rationale	Spreadsheets present financial and/or numeric data in an organized way and the use of formulas to recalculate results quickly when data changes are what make spreadsheets dynamic.
Enduring Understanding (Mastery Objective)	• Formulas allow for instant recalculation • Garbage In - Garbage Out: Accurate data and formulas are necessary to produce accurate results • Spreadsheets allow you to make predictions by using "What if" questions • Data can be represented as charts as well as organized in table format
Essential Questions (Instructional Objective)	• What kind of data and information would be presented in spreadsheet format? • How would the scientific community use a spreadsheet to present information? • When do you use a line chart? • When do you use a bar or column chart?
Content (Subject Matter)	• Teacher-created worksheet summarizing various endangered species numbers which calculate totals and create an embedded bar or column chart. • Teacher-created worksheet summarizing hotspots, endangered species, and a comparison over the years. Create a line chart to show the numbers of various species over time and create a pie chart to show percentage each species represents in the total hotspot.
Skills/ Benchmarks (CCSS Standards)	• 8.1.8.A.4 Generate a spreadsheet to calculate, graph, and present information. • 8.1.8.A.5 Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. • 8.1.8.E.1 Gather and analyze findings to produce a possible solution for a content-related or real world problem using data collection technology.
Materials and Resources	• LCD Projector, Internet to look up hotspots and species
Notes	