

# Kent City Middle School Curriculum Map for: 6<sup>th</sup> Computer Science

Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
5 Days	Computer Hardware & Concepts: Students will learn about the inside components of a computer and their basic operations.	6-8.CC.1: Communication Collaboration (Digital Resources)  6-8.TC.6: Technology Operations and Concepts (Technology Vocab)	Project - Shop for ultimate computer and write up a description. Hardware Quiz – Vocab and Concepts	Vocab list  Vocab Review (in class, on board)  Post on Google Classroom and read other posts.	Read/Process Information Text  Hardware Recognition  Use digital media (post on message board, respond, etc.)
Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
3 Days	Digital Visual Organizer: Student will use digital visual organizer to help them organize thoughts and ideas.	6-8.CI.2: Creativity and Innovation (An original project) 6-8.RI.1: Research and Information Literacy 6-8.RI.2 :Research and Information Literacy 6-8.CI.3: Creativity and Innovation	Project – Create a visual organizer (Cedar Point Rides)  Create a Personal Interests organizer *Use Bubbl.us  “I’m good at” MS Word Visual Organizer	Research Cedar Point park.  Create digital visual organizer (online)	Read/Process Information Text  Create visual organizers (online and MS word)
Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
2 Days	Files and Folders, Logins, Password, and Google Classroom	6-8.CC.1: Communication Collaboration (Digital Resources) 6-8.CC.2: Communication Collaboration (Collaboration Tools)	Project – Create folders for each class on network drive. Practice saving/opening, copying/pasting to the network drive. Join Google Classroom, post.		Creating Folders  Logging In/Out  Joining Google Classroom

<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
15-20 Days	Programming: Students will use Scratch and Kodu as an introduction to programming concepts such as loops, variables, sequencing, etc.	6-8. CT3:Critical Thinking, Problem Solving, and Decision Making 6-8.TC.6: Technology Operations and Concepts	Create your own program with variables, etc .	Technology terms/vocab	Problem solving with many opportunities for trial and error  Programming
<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
Everyday	Keyboarding: Students will learn home row touch keyboarding and practice everyday for 20-25 minutes.	6-8.CC.1: Communication Collaboration (Digital Resources)	Formative assessments every other week. Summative assessment at the end of the period.		Home row keyboarding skills
<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
7 Days	Staying Safe Online: Through discussions, videos, and presentations students will learn about how to stay safe online.	6-8.RI.1: Research and Information Literacy  6-8.DC.6: Digital Citizenship	Create a MS Word poster about Cyber Safety.  Participate in small group discussions	Research online safety.  Create a Cyber Safety Poster	Read/Process Information Text  Create a digital poster  Password protection, smart media use, etc.

## Kent City Middle School Curriculum Map – Computer Science 7<sup>th</sup> Grade

Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
2 Days	Career Introduction and skill/Interest list. Through video, questions, and discussion students will start exploring their interests and skills and how they relate to careers	6-8.RI.1: Research and Information Literacy 6-8.CT.3: Critical Thinking, Problem Solving, and Decision Making 6-8.TC.7: Technology Operations and Concepts	Answer career video questions.  Project - Create a list of skills/interests and relate it to a career	Vocab List  Interests/Skills lists	Career vocabulary  Paraphrasing  Post on message board
Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
5 Days	Who Am I (MS Word – Poster). Students will create a visual organizer about themselves and then connect that to a career or career field.	6-8.CI.2 : Creativity and Innovation  6-8.RI.2: Research and Information Literacy  6-8.TC.7: Technology Operations and Concepts	Project - Use MS Word to create a visual organizer about themselves and then connect that to a career or career field.	Write descriptive text about interests and how it applies to a career.	Descriptive writing  Creating a digital visual aid  Presenting to a group
Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
10 Days	Career Cruising, research, and create a presentation. Student will complete an online career interest survey to help match them to a career which they will then research and present on.	6-8.RI.1 / 6-8.RI.2: Research and Information Literacy  6-8.CT.3: Critical Thinking, Problem Solving, and Decision Making  6-8.TC.7: Technology Operations and Concepts	Project - Complete the interest survey, research a career, and create a presentation.  Present slideshow	Research a career  Analyze information  Create a presentation	Read/Process Information Text  Analyze information  Research  Create a presentation

<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
15 Days	Video Editing: Students will learn how to use a video editing program to create a video complete with pictures, transitions, titles, and a voice over.	6-8.CI.2: Creativity and Innovation  6-8.RI.1. 6-8.RI.2: Research and Information Literacy  6-8.CT.3: Critical Thinking  6-8.TC.7: Technology Operations and Concepts	Project - Research and create a video for a public service announcement. Use transitions, titles, and a voiceover.	Research a topic  Analyze information  Write a script and do a voiceover with information about the PSA.	Video editing  Read/Process Information Text  Write a script  Presenting project to a group
<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
10 Days	Photo Editing using GIMP: Students will be introduced to photo editing with layers, filters, etc.	6-8.CI.2:Creativity and Innovation  6-8.CI.3:Creativity and Innovation	Create a digital wall paper complete with background, and styled text. Create a photo montage by using the cut and layer tools.	Follow written directions and instructions	Photo Editing/Formatting  Follow written directions.
<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
Everyday	Keyboarding: Students will learn home row touch keyboarding and practice everyday for 20-25 minutes.	6-8.CC.1: Communication Collaboration (Digital Resources)	Formative assessments every other week. Summative assessment at the end of the period.		Home row keyboarding skills

## Kent City Middle School Curriculum Map – Computer Science 8<sup>th</sup> Grade

Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
3 Day	Who Am I (MS Word – Poster). Students will create a visual organizer about themselves and then connect that to a career or career field.	6-8.CI.2 : Creativity and Innovation  6-8.RI.2:Research and Information Literacy  6-8.TC.7: Technology Operations and Concepts	Project - Use MS Word to create a visual organizer about themselves and then connect that to a career or career field.	Write descriptive text about interests and how it applies to a career.	Descriptive writing  Creating a digital visual aid  Presenting to a group
Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
10 Days	Two career comparison /Holland Code Test/Wordle (Career Unit)	6-8.RI.1/6-8.RI.2. Research and Information Literacy  6-8.CT.3: Critical Thinking  6-8.TC.7: Technology Operations and Concepts	Project - Complete a comparison between two careers following the table format.	Research two careers  Analyze information.  Complete a table format of facts.	Read/Process Information Text  Analyze information.
Duration	Unit Name/Content	Standards METS	Assessment	Literacy Activities	Skills
15 Days	Career (Video): Use Utah Futures (website), research, and create a video on a career.	6-8.CI.2: Creativity and Innovation  6-8.RI.1 /6-8.RI.2 :Research and Information Literacy  6-8.CT.3: Critical Thinking  6-8.TC.7: Technology Operations and Concepts	Project - Research and create a video about a career of interest.	Research a career.  Analyze information  Write a script and do a voiceover with information about the career.	Read/Process Information Text  Analyze information.  Write a script  Presenting project to a group

<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
10 Days	My Life - Create a budget and graph. Use data to answer career summary questions and how it relates to a person's lifestyle	6-8.RI.1/6-8.RI.2: Research and Information Literacy  6-8.CT.3: Critical Thinking  6-8.TC.7: Technology Operations and Concepts	Project – Spreadsheet, graphs, and essay answers on how career choices affect life style	Analyze information  Analyze graphs  Write essays	Data Analysis  Graph Analysis  Writing
<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
10 Days	Photo Editing using GIMP: Students will practice their photo editing with layers, filters, etc.	6-8.CI.2 / 6-8.CI.3: Creativity and Innovation	Create a photo editing tutorial using GIMP and MS Word.  Complete three classmate tutorials	Creating step by step directions in a tutorial.  Follow someone else's step by step directions	Writing Directions  Following written directions.
<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
15 Days	Programming: Students will use online resources such as Tynker to learn and practice coding skills.	6-8. CT3:Critical Thinking, Problem Solving, and Decision Making 6-8.TC.6: Technology Operations and Concepts	Complete programming projects/lessons on Tykner	Technology terms/vocab	Problem solving with many opportunities for trial and error  Programming
<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
Everyday	Keyboarding: Students will learn home row touch keyboarding and practice everyday for 20-25 minutes.	6-8.CC.1: Communication Collaboration (Digital Resources)	Formative assessments every other week. Summative assessment at the end of the period.		Home row keyboarding skills

<b>Duration</b>	<b>Unit Name/Content</b>	<b>Standards METS</b>	<b>Assessment</b>	<b>Literacy Activities</b>	<b>Skills</b>
20 Days	KCMS News- Students will create a newscast once a month. Newscast positions will include anchors, producers, video editors, equipment operators, etc.	6-8.CI.2: Creativity and Innovation  6-8.RI.1. 6-8.RI.2: Research and Information Literacy  6-8.CT.3: Critical Thinking  6-8.TC.7: Technology Operations and Concepts	Project - Create a newscast that will be shown to students, staff, and parents.	Research a current event or school activity  Write a script	Video editing  Reading a script  Write a script  Interviewing