

<b>Course Name:</b> Intro to Computer Technology 7 Part A	<b>Grade:</b> 7th
<b>Prerequisites:</b> None	
<b>Course Description:</b> The Introduction to Computer Technology course introduces students to computers; the functions and uses of computer technology; the language used in the industry; possible applications of various computer-based technologies; and occupations related to computer technology hardware and software industries. This course will explore legal and ethical issues associated with computer technology use, as well as how changes influence modern society. Students may also be required to perform some computer technology operations.	

### Summary By Quarter

Quarter Overview		
Topic	Standards / Assessment Anchors	Pacing Guide
Spreadsheets in Google Sheets	CSTA: 2-DA-07; 2-DA-08 ISTE: 1.5.a; 1.5.b; 1.5.c; 1.5.d	4-5 Weeks; 20-25 Class Periods, 45 minutes each
Advanced Presentations in Google Slides	CSTA: 1B-DA-07; 1B-IC-18 ISTE: 1.3.a; 1.3.b; 1.3.c; 1.6.b; 1.6.c; 1.6.d	4-5 Weeks; 20-25 Class Periods, 45 minutes each

### Detailed Breakdown By Topic

Topic	Essential Knowledge & Skills	Vocabulary	Resources & Activities	Assessments
Spreadsheets in Google Sheets	<b><i>Students will be able to:</i></b> Enter data into Excel  Edit data in Excel  Use formula operators and functions (add, subtract, divide, multiply, round, average, others)  Arrange and sort columns and rows	Fill Cell formats Character formats Formula operators  Functions: Add Subtract Divide Multiply Round	<b><i>Sample Lessons/Learning Activities:</i></b>  Students will brainstorm items essential for a family budget and use the Internet to research prices/costs. Students will create a six-month budget using Google Sheets and formulas  Using the LL Bean website, students will create a packing list	Formative and summative, formal and informal assessments will be given. Students will have individual work and group work. May include but is not limited to teacher- created/ selected:  Timelines, Spreadsheets, Charts, Graphic Organizers Unit Assessments, Topic Assessments, Quizzes, DBQs, Essays, Short Answer Accountable Talk, Debate, Oral Report Projects, Portfolio, Presentations,

	<p>Format and print a spreadsheet report</p> <p>Construct graphs and charts from spreadsheet information</p> <p>Insert spreadsheets into a Google Doc</p> <p>Create a spreadsheet/chart from written text</p>	<p>Average</p> <p>Sort by columns</p> <p>Sort on values</p> <p>Conditional formatting</p> <p>Columns</p> <p>Rows</p> <p>Graphs</p> <p>Charts</p> <p>Chart titles</p> <p>Vertical Axis</p> <p>Horizontal Axis</p> <p>Labels</p>	<p>for an expedition to Antarctica. Students will choose from supplies they feel they need (provided a suggestion list) and include sum and multiplication formulas in their spreadsheet to come up with their total costs.</p> <p>Internet Sites:  <a href="http://www.llbean.com">http://www.llbean.com</a>  <a href="http://budgeting.thenest.com">http://budgeting.thenest.com</a> </p>	<p>Design Work, Homework</p> <p>Concept Mapping, Planning Notes, Design Briefs, Primary and Secondary Source Analysis, Photos, Videos, Data Analysis, Performance Tasks, Coding Logs, Product Creation, Explanations of Examples, and/or Individual Practice</p>
Advanced Presentations in Google Slides	<p><b><i>Students will be able to:</i></b></p> <p>Create a non-linear Slides presentation</p> <p>Create shapes and buttons in Google Slides</p> <p>Hyperlink shapes and buttons</p> <p>Hyperlink slides internally and externally</p> <p>Set up a slide show so that it will advance automatically</p> <p>Set up a slide show so that it will loop</p>	<p>Non-linear Slides presentations</p> <p>Hyperlink</p> <p>Buttons</p> <p>Internal</p> <p>External</p> <p>Looping</p>	<p><b><i>Sample Lessons/Learning Activities:</i></b></p> <p>Students will research questions and answers for a Jeopardy Game they will be creating using Google Slides. Students will create a Jeopardy Game Board with tables, formatted shapes and hyperlinks. There are two mandatory categories: US Presidents (or a similar US History topic) and a Science category that reflects the students' current learning in Science class.</p> <p>Internet Sites:  <a href="http://www.potus.com/">http://www.potus.com/</a>  <a href="http://www.history.com">http://www.history.com</a> </p>	<p>Formative and summative, formal and informal assessments will be given. Students will have individual work and group work. May include but is not limited to teacher- created/ selected:</p> <p>Timelines, Spreadsheets, Charts, Graphic Organizers</p> <p>Unit Assessments, Topic Assessments, Quizzes, DBQs, Essays, Short Answer</p> <p>Accountable Talk, Debate, Oral Report</p> <p>Projects, Portfolio, Presentations, Design Work, Homework</p> <p>Concept Mapping, Planning Notes, Design Briefs, Primary and Secondary Source Analysis, Photos, Videos, Data Analysis, Performance Tasks, Coding Logs, Product Creation, Explanations of Examples, and/or Individual Practice</p>
Intro to Multimedia Presentations	<p><b><i>Students will be able to:</i></b></p> <p>Create multimedia presentation using Canva's Movie Maker</p> <p>Create a storyboard for a movie</p> <p>Add pan and zoom effects to a movie</p>	<p>Multimedia</p> <p>Storyboard</p> <p>Pan and Zoom</p> <p>Transitions</p> <p>Audio effects</p> <p>Text effects</p> <p>Movie file types: .wmv</p>	<p><b><i>Sample Lessons/Learning Activities:</i></b></p> <p>Students will create an instructional ("how to") multimedia presentation. They will work with a partner to brainstorm topics. Topics must be school related such as: how to</p>	<p>Formative and summative, formal and informal assessments will be given. Students will have individual work and group work. May include but is not limited to teacher- created/ selected:</p> <p>Timelines, Spreadsheets, Charts, Graphic Organizers</p>

	<p>Add transitions to a movie</p> <p>Add audio to a movie</p> <p>Add cinematic text effects to a movie</p> <p>Save media projects into movie formats</p> <p>Present their movie trailer to the class</p>	<p>.mov .mpeg</p>	<p>design and build a birdhouse (technology education), how to complete a specific science lab/experiment (science), etc.</p> <p>Students will create a multimedia presentation about their favorite sports team, musician, actor, or historical figure using Canva's Movie Maker.</p> <p>Students will create a movie on a topic of their choice using Canva's Movie Maker.</p> <p>Internet sites: <a href="https://www.canva.com/create/movie-maker/">https://www.canva.com/create/movie-maker/</a></p>	<p>Unit Assessments, Topic Assessments, Quizzes, DBQs, Essays, Short Answer Accountable Talk, Debate, Oral Report Projects, Portfolio, Presentations, Design Work, Homework Concept Mapping, Planning Notes, Design Briefs, Primary and Secondary Source Analysis, Photos, Videos, Data Analysis, Performance Tasks, Coding Logs, Product Creation, Explanations of Examples, and/or Individual Practice</p>
--	--	-----------------------	---	--