

# CURRICULUM MAP

**Subject: Computer Technology**

**Grade Level: Kindergarten**

<b>FIRST QUARTER</b>	<b>SECOND QUARTER</b>	<b>THIRD QUARTER</b>	<b>FOURTH QUARTER</b>
<b>MOUSE SKILLS</b> <b>QWERTY KEYBOARD</b> <b>COOPERATIVE LEARNING</b> <b>COMPUTER HARDWARE NAMES</b>	<b>TECHNOLOGY VOCABULARY</b> <b>PAGE ADVANCING</b> <b>DOUBLE/SINGLE CLICKING ON MOUSE</b> <b>CLICK &amp; DRAG WITH</b> <b>MOUSE PULL DOWN MENU</b> <b>OPEN FOLDERS</b>	<b>HANDLING CD'S</b> <b>NAVIGATION WITHIN A PROGRAM</b> <b>INTRODUCTION TO PAINT PROGRAM</b>	<b>CONTINUATION OF ALL SKILLS</b>

# CURRICULUM MAP

**Subject: Computer Technology**

**Grade Level: 1st**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>MOUSE SKILLS</b></p> <p><b>QWERTY KEYBOARD</b></p> <p><b>LETTER LOCATION ON KEYBOARD</b></p> <p><b>CLICK &amp; DRAG</b></p> <p><b>SEQUENCING SKILLS</b></p> <p><b>CAUSE &amp; EFFECT</b></p> <p><b>FOLLOWING DIRECTIONS</b></p>	<p><b>MENUS</b></p> <p><b>SUB MENUS</b></p> <p><b>MULTIPLE KEYS</b></p> <p><b>PULL DOWN MENUS</b></p> <p><b>INTRO TO PAINT PROGRAM</b></p> <p><b>PRINTING</b></p> <p><b>PROPER TEXT SPACING</b></p>	<p><b>OPENING A PROGRAM</b></p> <p><b>NAVIGATION THROUGH A PROGRAM</b></p> <p><b>CLOSING A PROGRAM</b></p> <p><b>CHANGING LEVELS</b></p> <p><b>SAVING A FILE</b></p> <p><b>NAMING A FILE</b></p> <p><b>RETRIEVING SAVED GAMES AND FILES</b></p> <p><b>INTRO TO DIGITAL PHOTOGRAPHY</b></p>	<p><b>RECORD WITH A MICROPHONE</b></p> <p><b>MEANINGS OF ICONS</b></p> <p><b>KEYBOARD SHORTCUTS</b></p> <p><b>PRINTING</b></p> <p><b>RETRIEVING SAVED GAMES</b></p> <p><b>INSERTING &amp; DELETING TEXT</b></p> <p><b>WORD WRAPPING</b></p> <p><b>RETRIEVING A PICTURE</b></p> <p><b>CAPITALIZATION &amp; PUNCTUATION</b></p> <hr/> <p><b>INSERT CLIPART AND GRAPHICS</b></p> <p><b>FORMATTING GRAPHICS:</b></p> <ul style="list-style-type: none"> <li>• Resizing/handles</li> <li>• Moving/clicking &amp; dragging</li> <li>• Deleting</li> <li>• Orientation</li> </ul>

# CURRICULUM MAP

**Subject: Computer Technology**

**Grade Level: 2nd**

<b>FIRST QUARTER</b>	<b>SECOND QUARTER</b>	<b>THIRD QUARTER</b>	<b>FOURTH QUARTER</b>
<p><b>KEYBOARDING SKILLS</b></p> <ul style="list-style-type: none"> <li>• Letter location</li> <li>• Fingering-intro to Home Row</li> <li>• Capitalization &amp; Punctuation</li> </ul> <p><b>MOUSE SKILLS</b></p> <ul style="list-style-type: none"> <li>• double and single clicking</li> </ul> <p><b>HARDWARE NAMES</b></p> <p><b>MENU NAVIGATION</b></p> <p><b>COOPERATIVE</b></p> <p><b>LEARNING</b></p> <p><b>TECHNOLOGY VOCABULARY</b></p> <p><b>FOLLOWING DIRECTIONS</b></p> <p><b>VOLUME CONTROL</b></p>	<p><b>USE OF PAINT PROGRAM</b></p> <ul style="list-style-type: none"> <li>• How to paint</li> <li>• Multiple key usage</li> <li>• Opening &amp; closing</li> <li>• Folders</li> <li>• Using passwords</li> <li>• Quick find</li> <li>• Proper text spacing</li> <li>• Insert clipart</li> <li>• Formatting graphics</li> <li>• Saving and opening files</li> <li>• Recording voice with microphone</li> </ul>	<p><b>ZOOMING IN &amp; OUT</b></p> <p><b>RECOGNIZING DIFFERENT ICONS</b></p> <p><b>USE OF HELP MENU WITHIN AN APPLICATION</b></p> <p><b>FIND</b></p> <p><b>CONTINUATION OF KEYBOARDING SKILLS</b></p>	<p><b>INTRO TO WORD PROCESSING</b></p> <ul style="list-style-type: none"> <li>• Inserting &amp; deleting text</li> <li>• Word wrap</li> <li>• Enter or Return to start new paragraph</li> <li>• Inserting clipart or graphic</li> <li>• Format text</li> </ul> <p><b>INTRO TO SLIDESHOW PRESENTATIONS</b></p> <ul style="list-style-type: none"> <li>• Transitions</li> <li>• Sounds</li> <li>• Retrieve pictures and place into presentation form</li> </ul>
<p><b>HEADPHONE USAGE</b></p>			

# CURRICULUM MAP

**Subject: Computer Technology**

**Grade Level: 3rd**

<b>FIRST QUARTER</b>	<b>SECOND QUARTER</b>	<b>THIRD QUARTER</b>	<b>FOURTH QUARTER</b>
<p><b>REVIEW MOUSE SKILLS</b></p> <p><b>KEYBOARDING</b></p> <ul style="list-style-type: none"> <li>• Letter location</li> <li>• Fingering</li> <li>• Home Row</li> <li>• Upper &amp; lower case</li> <li>• Posture</li> </ul> <p><b>HARDWARE</b></p> <p><b>NAMES CD USAGE</b></p> <p><b>VOCABULARY</b></p> <p><b>CLICK &amp; DRAG</b></p> <p><b>COOPERATIVE LEARNING</b></p> <p><b>USE OF DIFFERENT LEVELS WITHIN A PROGRAM</b></p> <p><b>APPROPRIATE USE OF ICONS</b></p> <p><b>CLEANING UP DESKTOP</b></p>	<p><b>WORD PROCESSING</b></p> <ul style="list-style-type: none"> <li>• Word wrap</li> <li>• Formatting text-size, style, color</li> <li>• Using the Enter or Return key to go to the next line</li> <li>• Highlighting text</li> <li>• Cut, copy and paste</li> <li>• Inserting and deleting clipart &amp; photos</li> <li>• Formatting graphics</li> <li>• Layout of document</li> <li>• Saving and opening files</li> </ul>	<p><b>CREATE A SIMPLE MULTIMEDIA SHOW</b></p> <ul style="list-style-type: none"> <li>• Transitions &amp; sounds</li> <li>• Inserting text in a text box</li> <li>• Opening/closing icons</li> <li>• Saving &amp; opening files</li> <li>• Inserting clipart and photos</li> </ul> <p><b>INTRO TO SPREADSHEETS AND GRAPHING</b></p> <ul style="list-style-type: none"> <li>• Create tables</li> <li>• Input data</li> <li>• Create graphs</li> <li>• Interpreting results</li> </ul> <p><b>CONTINUATION OF KEYBOARDING SKILLS</b></p>	<p><b>INTRO TO THE INTERNET</b></p> <ul style="list-style-type: none"> <li>• Navigating through information links</li> <li>• Finding specific information</li> <li>• Search techniques-use of Search Engines</li> <li>• Typing in specific URL's</li> <li>• Problem solving skills</li> <li>• Printing selected passages or pages</li> </ul>

# CURRICULUM MAP

Subject: Computer Technology

Grade Level 4<sup>th</sup>

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>MOUSE SKILLS-LEFT AND RIGHT CLICK</b></p> <p><b>HARDWARE NAMES</b></p> <p><b>COOPERATIVE LEARNING</b></p> <p><b>TECHNOLOGY</b></p> <p><b>VOCABULARY</b></p> <p><b>KEYBOARDING SKILLS</b></p> <ul style="list-style-type: none"> <li>• Fingering</li> <li>• Posture</li> <li>• Work towards accuracy and speed</li> </ul> <p><b>PROBLEM SOLVING SKILLS</b></p>	<p><b>WORD PROCESSING SKILLS</b></p> <ul style="list-style-type: none"> <li>• Inserting/deleting text, photos, and graphics</li> <li>• Cut/paste/copy</li> <li>• Highlighting text</li> <li>• Formatting text and graphics</li> <li>• Page layout-alignment</li> <li>• Editing skills</li> <li>• Spell check</li> </ul> <p><b>INTRO TO THE INTERNET</b></p> <ul style="list-style-type: none"> <li>• URL's</li> <li>• Search Engines</li> <li>• Key word search</li> <li>• Narrowing search</li> <li>• Back &amp; forward buttons</li> <li>• Home button</li> <li>• Refresh button</li> <li>• Acceptable use policy</li> </ul>	<p><b>CONTINUATION OF KEYBOARDING SKILLS</b></p> <p><b>INTRO TO SPREADSHEETS</b></p> <ul style="list-style-type: none"> <li>• Create table</li> <li>• Input data – more than one variable</li> <li>• Create graphs</li> <li>• Interpret results</li> </ul>	<p><b>MULTIPLE KEY USAGE</b></p> <p><b>NAVIGATING THROUGH A PROGRAM</b></p> <p><b>INTRO TO POWERPOINT</b></p> <ul style="list-style-type: none"> <li>• Choosing slide design</li> <li>• Choosing color scheme</li> <li>• Inserting text</li> <li>• Inserting pictures</li> <li>• Layout</li> <li>• Slide Transitions</li> <li>• Animation scheme</li> </ul> <p><b>MULTI-TASKING</b></p> <ul style="list-style-type: none"> <li>• Toggling between applications</li> <li>• Copy &amp; Paste pictures and text</li> <li>• Minimize &amp; Maximize windows</li> <li>• Window shade (MAC)</li> </ul>

# CURRICULUM MAP

**Subject: Computer Technology**

**Grade Level: 5th**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>MENU NAVIGATION</b></p> <p><b>LEVELS WITHIN A PROGRAM TECHNOLOGY</b></p> <p><b>VOCABULARY</b></p> <p><b>KEYBOARDING SKILLS FOR ACCURACY &amp; SPEED</b></p> <ul style="list-style-type: none"> <li>• Mavis Beacon</li> </ul> <p><b>INTERNET SKILLS</b></p> <ul style="list-style-type: none"> <li>• Acceptable usage policy</li> <li>• Search engines</li> <li>• Bookmarking or using My Favorites</li> <li>• Inserting URL's</li> <li>• Narrowing searches</li> <li>• Links</li> </ul> <p><b>INTERNET ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>• "That Quiz"               <ul style="list-style-type: none"> <li>• Mental Math Activities</li> <li>• Applications to other academic areas</li> </ul> </li> <li>• "National Library of Virtual Manipulatives (NLVM)"</li> <li>• "Ben's Guide to U.S. Government for Kids"</li> </ul>	<p><b>COMIC LIFE</b></p> <ul style="list-style-type: none"> <li>• Page Template</li> <li>• Inserting Photos, Lettering, Text Balloons</li> <li>• Style and Details</li> </ul> <p><b>WORD PROCESSING SKILLS</b></p> <ul style="list-style-type: none"> <li>• Formatting text</li> <li>• Editing Text</li> <li>• Margins</li> <li>• Spell Check</li> <li>• Inserting/deleting text, photos, and graphics</li> </ul> <p><b>MULTITASKING</b></p> <ul style="list-style-type: none"> <li>• Toggle between applications</li> <li>• Window shade (MAC)</li> <li>• Copy &amp; Paste pictures and text</li> <li>• Minimize &amp; Maximizing windows</li> </ul> <p><b>PUZZLEMAKER</b></p> <ul style="list-style-type: none"> <li>• Word Search</li> <li>• Double Puzzle</li> <li>• Cryptograms</li> <li>• Math Square</li> <li>• Equation Search</li> </ul>	<p><b>GARAGEBAND</b></p> <ul style="list-style-type: none"> <li>• Create musical piece</li> <li>• Select instruments</li> <li>• Sound effects</li> <li>• Add, Select, Move, Lock, Rename Tracks</li> <li>• Set tempo, key, time and length</li> <li>• Move around in timeline</li> <li>• Change track instrument</li> <li>• Add and Adjust track effects</li> </ul> <p><b>IMOVIE</b></p> <ul style="list-style-type: none"> <li>• Themes</li> <li>• Media               <ul style="list-style-type: none"> <li>○ Audio</li> <li>○ Photos</li> </ul> </li> <li>• Copy &amp; Paste pictures and text</li> <li>• Editing               <ul style="list-style-type: none"> <li>○ Titles</li> <li>○ Transitions</li> <li>○ Video FX</li> <li>○ Audio FX</li> </ul> </li> </ul>	<p><b>POWERPOINT PRESENTATIONS</b></p> <ul style="list-style-type: none"> <li>• Choosing slide design</li> <li>• Choosing color scheme</li> <li>• Layout</li> <li>• Insert text, graphics, video</li> <li>• Animation scheme</li> <li>• Graphic animation</li> <li>• Timing</li> <li>• Import sounds</li> </ul> <p><b>RESEARCH PROJECT</b></p> <ul style="list-style-type: none"> <li>• Research topic using internet</li> <li>• Take notes</li> <li>• Rough draft</li> <li>• Create presentation using PowerPoint</li> </ul>

# CURRICULUM MAP

Subject: Computer Technology

Grade Level: 6th

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<b>APPLE WORKS</b>			<b>RESEARCH</b>
<ul style="list-style-type: none"> <li>• Overview               <ul style="list-style-type: none"> <li>○ AppleWorks                   <ul style="list-style-type: none"> <li>▪ Word Processing</li> <li>▪ Drawing</li> <li>▪ Painting</li> <li>▪ Database</li> </ul> </li> <li>▪ Spreadsheet</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Format               <ul style="list-style-type: none"> <li>a. Document</li> <li>b. Rulers</li> <li>c. Section</li> <li>d. Paragraph</li> <li>e. Insert Header</li> <li>f. Insert Footer</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Margins               <ul style="list-style-type: none"> <li>a. top/bottom</li> <li>b. left/right</li> </ul> </li> <li>• Line Spacing               <ul style="list-style-type: none"> <li>a. single</li> <li>b. double</li> <li>c. triple</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Worldbook Encyclopedia               <ul style="list-style-type: none"> <li>○ Research a Country                   <ul style="list-style-type: none"> <li>▪ Government</li> <li>▪ People</li> <li>▪ Land &amp; Climate</li> </ul> </li> <li>▪ Economy</li> <li>▪ History</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Word Processing               <ul style="list-style-type: none"> <li>○ Introduction</li> <li>○ Menus                   <ul style="list-style-type: none"> <li>▪ File</li> <li>▪ Edit</li> <li>▪ Format</li> <li>▪ Font                       <ul style="list-style-type: none"> <li>▪ Size</li> <li>▪ Style</li> </ul> </li> <li>▪ Outline</li> <li>▪ Window</li> </ul> </li> <li>• File               <ul style="list-style-type: none"> <li>○ New</li> <li>○ Open</li> <li>○ Insert</li> <li>○ Close</li> <li>○ Save                   <ul style="list-style-type: none"> <li>○ Save As</li> <li>○ Library</li> <li>○ Page Setup</li> <li>○ Print</li> <li>○ Quit</li> <li>• Edit                       <ul style="list-style-type: none"> <li>○ Cut</li> <li>○ Copy</li> <li>○ Paste</li> <li>○ Clear</li> <li>○ Select All</li> <li>○ Insert Page#</li> <li>○ Writing Tools</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li></ul>	<ul style="list-style-type: none"> <li>• Font               <ul style="list-style-type: none"> <li>• Size</li> </ul> </li> <li>• Style               <ul style="list-style-type: none"> <li>○ Plain Text</li> <li>○ Bold</li> <li>○ Italic</li> <li>○ Underline</li> <li>○ Shadow</li> <li>○ Superscript</li> <li>• Window               <ul style="list-style-type: none"> <li>○ Slide Show</li> <li>○ Show Tools</li> <li>○ Show Rulers</li> </ul> </li> </ul> </li></ul>	<ul style="list-style-type: none"> <li>• Headers/Footers               <ul style="list-style-type: none"> <li>a. page numbers</li> </ul> </li> <li>• Print Enhancements               <ul style="list-style-type: none"> <li>a. bold print</li> <li>b. underline</li> <li>c. outline</li> <li>d. shadow</li> <li>e. italic</li> <li>f. superscript</li> <li>g. subscript</li> <li>• Text Alignment               <ul style="list-style-type: none"> <li>a. centered</li> <li>b. left</li> <li>c. right</li> <li>d. fill</li> </ul> </li> <li>• Spell Check</li> <li>• Thesaurus</li> </ul> </li></ul>	<ul style="list-style-type: none"> <li>• Internet Search using Google &amp; Ask Geeves</li> </ul>
	<b>WORKING WITH A DOCUMENT</b>	<b>GRAPHIC LIBRARY</b>	<b>WRITING</b>
	<ul style="list-style-type: none"> <li>• Beginning a document               <ul style="list-style-type: none"> <li>○ entering text</li> <li>○ inserting characters</li> <li>○ deleting characters</li> <li>○ replacing characters</li> </ul> </li> <li>• Scrolling text</li> <li>• Saving a document</li> <li>• Printing a document</li> <li>• Find - find/replace text</li> <li>• Work with characters               <ul style="list-style-type: none"> <li>○ cut</li> <li>○ copy</li> <li>○ paste</li> <li>○ clear</li> <li>○ select all</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Insert graphic in document               <ul style="list-style-type: none"> <li>○ Word wrap</li> <li>○ Resize</li> <li>○ Transformations</li> <li>○ Graphic tools</li> <li>○ Rulers</li> <li>○ Use of color</li> <li>• Mac Mavis               <ul style="list-style-type: none"> <li>○ Keyboarding</li> <li>○ Lessons</li> <li>○ Activities</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Notebook/Journal               <ul style="list-style-type: none"> <li>○ Types of entries                   <ul style="list-style-type: none"> <li>▪ Memory</li> <li>▪ Journal</li> <li>▪ Reading Response</li> <li>▪ Story Idea</li> <li>▪ Information</li> <li>▪ Poetry</li> <li>▪ Life Observatiopn</li> <li>▪ Plans</li> <li>▪ Story Idea</li> <li>▪ Self Reflection</li> </ul> </li> <li>○ Sharing</li> </ul> </li> </ul>
			<b>WRITING A PIECE</b>
			<ul style="list-style-type: none"> <li>• Topic writing</li> <li>• Rough draft</li> <li>• Revise &amp; edit</li> <li>• Self edit</li> <li>• Peer edit</li> <li>• Final Copy</li> </ul>

# CURRICULUM MAP

Subject: Technology

Grade Level: 7th

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
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<b>APPLE WORKS</b>	<ul style="list-style-type: none"> <li>Format</li> </ul>	<ul style="list-style-type: none"> <li>Margins</li> </ul>	<ul style="list-style-type: none"> <li>Graphic Design-Painting</li> </ul>
<ul style="list-style-type: none"> <li>Overview</li> <li>AppleWorks <ul style="list-style-type: none"> <li>Word Processing</li> <li>Drawing</li> <li>Painting</li> <li>Database</li> <li>Spreadsheet</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>a. Document</li> <li>b. Rulers</li> <li>c. Section</li> <li>d. Paragraph</li> <li>e. Insert Header</li> <li>f. Insert Footer</li> </ul>	<ul style="list-style-type: none"> <li>a. top/bottom</li> <li>b. left/right</li> <li>Line Spacing <ul style="list-style-type: none"> <li>single</li> <li>double</li> <li>triple</li> </ul> </li> <li>Headers/Footers <ul style="list-style-type: none"> <li>page numbers</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Create graphic projects using the Painting application</li> <li>Use of graphics tools</li> <li>Use the Edit menu</li> <li>Use of Transformations</li> <li>Use of Color fill</li> <li>Coordination of colors</li> </ul>
<ul style="list-style-type: none"> <li>Word Processing <ul style="list-style-type: none"> <li>Introduction</li> <li>Menus <ul style="list-style-type: none"> <li>File</li> <li>Edit</li> <li>Format</li> <li>Font</li> <li>Size</li> <li>Style</li> <li>Outline <ul style="list-style-type: none"> <li>Window</li> </ul> </li> </ul> </li> <li>File <ul style="list-style-type: none"> <li>New</li> <li>Open</li> <li>Insert</li> <li>Close</li> <li>Save</li> <li>Save As</li> <li>Library</li> <li>Page Setup</li> </ul> </li> <li>Print</li> <li>Quit</li> <li>Edit <ul style="list-style-type: none"> <li>Cut</li> <li>Copy</li> <li>Paste</li> <li>Clear</li> <li>Select All</li> <li>Insert Page#</li> <li>Writing Tools</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Style <ul style="list-style-type: none"> <li>Plain Text</li> <li>Bold</li> <li>Italic</li> <li>Underline</li> <li>Shadow</li> <li>Superscript</li> </ul> </li> <li>Window <ul style="list-style-type: none"> <li>Slide Show</li> <li>Show Tools <ul style="list-style-type: none"> <li>Show Rulers</li> </ul> </li> </ul> </li> </ul> <p><b>WORKING WITH A DOCUMENT</b></p> <ul style="list-style-type: none"> <li>Beginning a document <ul style="list-style-type: none"> <li>entering text</li> <li>inserting characters</li> <li>deleting characters</li> <li>replacing characters</li> </ul> </li> <li>Scrolling text</li> <li>Saving a document</li> </ul>	<ul style="list-style-type: none"> <li>Print Enhancements <ul style="list-style-type: none"> <li>bold print</li> <li>underline</li> <li>outline</li> <li>shadow</li> <li>italic</li> <li>superscript</li> <li>subscript</li> </ul> </li> <li>Text Alignment <ul style="list-style-type: none"> <li>centered</li> <li>left</li> <li>right</li> <li>fill</li> </ul> </li> <li>Spell Check</li> <li>Thesaurus</li> </ul> <p><b>GRAPHIC LIBRARY</b></p> <ul style="list-style-type: none"> <li>Insert graphic in document <ul style="list-style-type: none"> <li>Word wrap</li> <li>Resize</li> </ul> </li> </ul>	<p><b>PRESENTATION OF SOFTWARE</b></p> <ul style="list-style-type: none"> <li>Use HyperStudio to create media presentations</li> <li>Media presentations will include: <ul style="list-style-type: none"> <li>text</li> <li>graphics</li> <li>sound</li> <li>action buttons</li> <li>animation</li> <li>background</li> </ul> </li> </ul>
			<p><b>INTERNET APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>Proper use of the internet for research as it applies to academic classes.</li> <li>Use of search engines</li> <li>Virtual tour of the Freedom Trail in Boston</li> </ul> <p><b>KEYBOARDING</b></p> <ul style="list-style-type: none"> <li>Mac Mavis</li> </ul>
	<ul style="list-style-type: none"> <li>Printing a document</li> <li>Find - find/replace text</li> <li>Work with characters <ul style="list-style-type: none"> <li>cut</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Transformations</li> <li>Graphic tools</li> <li>Rulers</li> <li>Use of color</li> <li>Keyboarding</li> <li>Lessons</li> <li>Activities</li> </ul>	<p><b>RESEARCH</b></p> <ul style="list-style-type: none"> <li>Worldbook Encyclopedia <ul style="list-style-type: none"> <li>Research a Country <ul style="list-style-type: none"> <li>Government</li> <li>People</li> <li>Land &amp; Climate</li> <li>Economy</li> <li>History</li> </ul> </li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>copy</li> <li>paste</li> <li>clear</li> <li>select all</li> </ul>	<ul style="list-style-type: none"> <li>Spreadsheet <ul style="list-style-type: none"> <li>Create a data spreadsheet</li> <li>Make a graph from the data</li> </ul> </li> </ul>	

<b>First Quarter (Introduction)</b>	<b>Second Quarter (Production)</b>	<b>Third Quarter (Communication)</b>	<b>Fourth quarter (Energy)</b>
<ul style="list-style-type: none"> <li>- <b>Safety In Technology</b></li> <li>- <b>Technology and its history</b></li> <li>- <b>Systems Model</b> <ul style="list-style-type: none"> <li>• Input</li> <li>• Process</li> <li>• Output</li> <li>• Feedback</li> </ul> </li> <li>- <b>7 Resources of Technology</b>            (People, Capital, Information, Tools/Equipment, Materials, Energy, Time)</li> <li>- <b>Measuring</b></li> <li>- <b>Basic Drawing</b> <ul style="list-style-type: none"> <li>• Isometric</li> <li>• Orthographic</li> <li>• Oblique</li> </ul> </li> <li>- <b>Problem Solving Method</b></li> <li>- <b>Simple Machines</b> <ul style="list-style-type: none"> <li>• Levers (1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Class)</li> <li>• Inclined Plane</li> <li>• Screw</li> <li>• Wedge</li> <li>• Pulley</li> <li>• Wheel and Axle</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- <b>Transportation</b> <ul style="list-style-type: none"> <li>• <b>History of transportation</b></li> <li>• <b>Types of transportation</b> <ul style="list-style-type: none"> <li>○ Land</li> <li>○ Water</li> <li>○ Air</li> </ul> </li> <li>• <b>Elements of design</b>  <i>Aerodynamics</i> <ul style="list-style-type: none"> <li>○ Lift</li> <li>○ Drag</li> <li>○ Gravity</li> <li>○ Propulsion</li> </ul> </li> </ul> </li> <li>- <b>Processing Resources</b>  <i>How each resources is processed or changed for production</i> <ul style="list-style-type: none"> <li>• Processes of production               <ul style="list-style-type: none"> <li>○ Designing</li> <li>○ Drawing</li> <li>○ Prototyping</li> <li>○ Production</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- <b>History of Communication Technology</b></li> <li>- <b>Communication Theory</b> <ul style="list-style-type: none"> <li>• Channels</li> <li>• Sender/Receiver</li> <li>• Media</li> <li>• Encoding/Decoding</li> <li>• Feedback</li> </ul> </li> <li>- <b>Communication Systems</b> <ul style="list-style-type: none"> <li>• Graphic</li> <li>• Electronic</li> <li>• Photographic</li> </ul> </li> <li>- <b>Using Computer systems</b> <ul style="list-style-type: none"> <li>• Computer Basics</li> <li>• Word Processing</li> <li>• Computer graphics</li> <li>• Power Point</li> </ul> </li> <li>- <b>Audio/Visual Systems</b> <ul style="list-style-type: none"> <li>• Video Production</li> <li>• Client's Needs</li> <li>• Pre-Production Planning</li> <li>• Production</li> <li>• Planning</li> </ul> </li> <li>- <b>Future of Communications Technology</b></li> </ul>	<ul style="list-style-type: none"> <li>- <b>Forms Of Energy</b></li> <li>- <b>Ways energy is transformed</b></li> <li>- <b>Solar Energy (Radiant energy)</b> <ul style="list-style-type: none"> <li>• Passive Solar Systems</li> <li>• Active Solar Systems</li> <li>• Cooking systems utilizing radiant energy</li> </ul> </li> <li>- <b>Wind Energy</b>  <i>Different Forms of transportation and the energy used in each device</i> <ul style="list-style-type: none"> <li>• Electrical</li> <li>• Mechanical</li> <li>• Steam</li> </ul> </li> </ul>

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - Design & Drawing for Production    Grade Level: Mixed**

**Teacher(s):**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>UNIVERSAL LANGUAGE</b></p> <ul style="list-style-type: none"> <li>● SKETCHING (PICTORIAL)</li> <li>● OBLIQUE</li> <li>● ISOMETRIC</li> <li>● PERSPECTIVE</li> </ul> <p><b>VISUAL ELEMENTS</b></p> <ul style="list-style-type: none"> <li>● LINE</li> <li>● SHAPE</li> <li>● FORM</li> <li>● COLOR</li> <li>● SPACE</li> <li>● TEXTURE</li> <li>● VALUE</li> </ul> <p><b>TECHNICAL DRAWING</b></p> <ul style="list-style-type: none"> <li>● ORTHOGRAPHIC PROJECTION</li> <li>● ISOMETRIC</li> </ul>	<p><b>COMPUTER-AIDED DRAWING</b></p> <ul style="list-style-type: none"> <li>● COMPUTER LITERACY</li> <li>● CAD APPLICATION</li> <li>● TINKER CAD</li> <li>● GOOGLE SKETCH UP</li> </ul> <p><b>PROBLEM-SOLVING DESIGN</b></p> <ul style="list-style-type: none"> <li>● TECHNOLOGICAL METHOD</li> <li>● DESIGN BRIEF CHALLENGE</li> <li>● PROCESSES/APPLICATIONS</li> <li>● PROTO-TYPE CONSTRUCTION</li> <li>● EVALUATION</li> <li>● PRESENTATION</li> </ul>	<p><b>SECTIONS</b></p> <ul style="list-style-type: none"> <li>● DESIGN BRIEF CHALLENGE</li> <li>● TECHNIQUES</li> <li>● APPLICATIONS</li> <li>● CAD</li> </ul> <p><b>TRANSITIONS AND DEVELOPMENTS</b></p> <ul style="list-style-type: none"> <li>● DESIGN BRIEF CHALLENGE</li> <li>● TECHNIQUES</li> <li>● APPLICATIONS</li> <li>● CAD</li> </ul>	<p><b>AUXILIARIES</b></p> <ul style="list-style-type: none"> <li>● DESIGN BRIEF CHALLENGE</li> <li>● TECHNIQUES</li> <li>● APPLICATIONS</li> <li>● CAD</li> </ul> <p><b>REVOLUTIONS</b></p> <ul style="list-style-type: none"> <li>● DESIGN BRIEF CHALLENGE</li> <li>● TECHNIQUES</li> <li>● APPLICATIONS</li> <li>● CAD</li> </ul>

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - Architectural Drawing**

**Grade Level: 10th-12th**

**Teacher(s):**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>LANDSCAPING &amp; FLOOR PLANS, SYMBOLS</b></p> <p><b>FOUNDATIONS &amp; FLOOR PLANS</b></p> <p><b>ROOM AND AREA PLANNING</b></p> <p><b>BATH SYMBOLS, KITCHEN SYMBOLS, ELECTRICAL SYMBOLS</b></p> <p><b>TOOLS AND TECHNIQUES</b></p> <ul style="list-style-type: none"> <li>● Scales</li> <li>● Drafting Instruments</li> <li>● Papers, Pencils</li> <li>● Computer Aided Design</li> <li>● utilization of AutoCAD to complete all required drawings</li> </ul> <p><b>HISTORY</b></p> <p><b>AESTHETICS</b></p> <ul style="list-style-type: none"> <li>● Elements of Design</li> <li>● Principles of Design</li> <li>● Creativity</li> <li>● Functional Design</li> </ul> <p><b>PLANNING &amp; DRAWING</b></p> <ul style="list-style-type: none"> <li>● Site Plan               <ul style="list-style-type: none"> <li>○ Building location</li> <li>○ Landscaping</li> <li>○ Symbols</li> </ul> </li> </ul> <p><b><u>TERM PROJECT</u></b></p> <p>As each area is covered, the students will complete the floor plans, electrical plans, plumbing plans, and elevations of a small two bedroom, one bath dwelling.</p>	<p><b>STAIR &amp; CONSTRUCTION DETAILS</b></p> <p><b>DIMENSIONING FLOOR PLANS</b></p> <p><b>WALL MATERIALS &amp; CORNICE DETAILS</b></p> <p><b>WALL SECTIONS ROOM FINISHING SCHEDULES</b></p> <p><b>ROOFS &amp; PERSPECTIVES</b></p> <p><b>ELEVATIONS</b></p> <p><b>OCCUPATIONS &amp; CAREERS</b></p> <p><b>PLANNING/DRAWING</b></p> <ul style="list-style-type: none"> <li>● Area/Room Plans</li> <li>● Floor Plans</li> </ul> <p><b>ARCHITECTURAL DRAWING TECHNIQUES USING AutoCAD</b></p> <ul style="list-style-type: none"> <li>● Dimensioning</li> <li>● Floor Plans</li> <li>● Sections/ Framing</li> <li>● Exterior Elevations</li> <li>● Perspectives</li> </ul> <p><b>CAREER EXPLORATION</b></p> <p><b><u>FINAL EXAM</u></b></p> <p>Design and draw their idea of a dream home.</p>		

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - Woodworking**

**Grade Level: 11th – 12th**

**Teacher(s): J. Ponsolle**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>RESOURCES</b></p> <ul style="list-style-type: none"> <li>● PEOPLE-JOBS-ORGANIZATIONS</li> <li>● INFO-HISTORY</li> </ul> <p><b>PROCESSES</b></p> <ul style="list-style-type: none"> <li>● MEASUREMENTS</li> <li>● LAB SAFETY</li> <li>● MACHINE USE</li> <li>● MACHINE USE PRACTICE</li> <li>● TIME MANAGEMENT</li> <li>● WORKING DRAWINGS</li> </ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"> <li>● PROJECT UPDATE (REFLECTION)</li> <li>● IMPACTS- ENV., ECO., SOCIETAL, PERSONAL</li> </ul> <p><b>TOOLS COVERED</b></p> <ul style="list-style-type: none"> <li>● CHOP SAW</li> <li>● PLANER</li> <li>● JOINTER</li> <li>● BAND SAW</li> <li>● CORDLESS DRILL</li> <li>● PALM SANDER</li> <li>● BELT SANDER</li> </ul>	<p><b>PROCESSES</b></p> <ul style="list-style-type: none"> <li>● HOW TO FINISH A PROJECT               <ul style="list-style-type: none"> <li>○ STAIN</li> <li>○ POLYURETHANE</li> <li>○ PAINT</li> </ul> </li> <li>● DIFFERENT ASSEMBLY MEANS</li> <li>● WORKING DRAWINGS</li> </ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"> <li>● PROJECT UPDATE (REFLECTION)</li> <li>● IMPACTS- ENV., ECO., SOCIETAL, PERSONAL</li> </ul> <p><b>TOOLS COVERED</b></p> <ul style="list-style-type: none"> <li>● DRILL PRESS</li> <li>● LATHE</li> <li>● BISCUIT JOINTER</li> <li>● CIRCULAR SAW</li> <li>● TABLE SAW</li> </ul> <p>** DURING BOTH SEMESTERS STUDENTS WILL COMPLETE MANY PROJECTS. THE NUMBER OF PROJECTS DEPENDS ON THE PROJECT PICKED, NOT EVERYONE WILL COMPLETE THE SAME NUMBER OF PROJECTS. **</p>		

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - SUNYCAD 101**

**Grade Level: 10th-12<sup>th</sup>**

**Teacher(s): J. Ponsolle**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>INTRODUCTION TO AutoCAD</b>            An introduction to drafting using AutoCAD software. Emphasis is placed on drafting, annotating, and dimensioning two dimensional drawings and composing sheets to be plotted. Emphasis is also placed on training students to follow verbal directions. Achieving appropriate line-weight distinctions when plotting is stressed.</p> <p>A computer system and CAD programs are used as tools in the design drafting process. Students will use a computer system and CAD software in place of traditional pencil-and-paper techniques.</p> <p><b>TECHNICAL DRAWING PROCEDURES</b></p> <ul style="list-style-type: none"> <li>● Orthographic</li> <li>● Isometric</li> <li>● Perspectives</li> <li>● Section</li> </ul>	<p>At the end of the course, students who successfully complete this course will be able to:</p> <ol style="list-style-type: none"> <li>1. Demonstrate proficiency using Drawing and Modifying commands to draft two dimensional drawings.</li> <li>2. Demonstrate an understanding of using AutoCAD operations to draft two dimensional drawings.</li> <li>3. Produce dimensioned annotated plans, sections, and elevations.</li> <li>4. Create and use blocks.</li> <li>5. Utilize Modelspace and Paperspace (Layout).</li> <li>6. Compose sheets using Layout, including scaling viewports and managing text height.</li> <li>7. Combine files using XREF.</li> <li>8. Plot large sheets with appropriate line-weights.</li> </ol> <p>Demonstrate a basic understanding of AutoCAD Architecture.</p>		

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - Photography**

**Grade Level: Mixed**

**Teacher(s):**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>PHOTOGRAPHIC PROCESS</b></p> <p><b>LIGHT THEORY</b></p> <ul style="list-style-type: none"> <li>• Spectrum</li> <li>• B&amp;W Continuous tone</li> <li>• Highlight &amp; shadows</li> </ul> <p><b>CAMERA</b></p> <ul style="list-style-type: none"> <li>• Parts</li> <li>• Types</li> <li>• Safe operation</li> </ul> <p><b>LENSES</b></p> <ul style="list-style-type: none"> <li>• Focal length</li> <li>• Types</li> </ul> <p><b>EXPOSURE</b></p> <ul style="list-style-type: none"> <li>• Shutter speed</li> <li>• Aperture</li> <li>• Existing light</li> <li>• Light metering</li> </ul> <p><b>PHOTOSHOP</b></p> <ul style="list-style-type: none"> <li>• Process</li> <li>• Techniques</li> <li>• Output</li> </ul> <p><b>PRINTING</b></p> <ul style="list-style-type: none"> <li>• Enlarging</li> <li>• Print processing</li> <li>• Print finishing</li> </ul>	<p><b>PRODUCT PHOTOGRAPHY</b></p> <ul style="list-style-type: none"> <li>• Catalog</li> <li>• Advertising</li> <li>• Studio lighting</li> </ul> <p><b>DEPTH-OF-FIELD</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Controls</li> <li>• Creative uses</li> </ul> <p><b>COMPOSITION</b></p> <ul style="list-style-type: none"> <li>• Center of interest</li> <li>• Rule of thirds</li> <li>• Leading lines</li> <li>• Merges</li> <li>• Balance</li> </ul> <p><b>ADVANCED ENLARGING TECHNIQUES</b></p> <ul style="list-style-type: none"> <li>• Cropping</li> <li>• Dodging</li> <li>• Burning in</li> <li>• Vignetting</li> </ul> <p><b>DIGITAL IMAGING</b></p> <ul style="list-style-type: none"> <li>• Video to digital</li> <li>• Still digital</li> <li>• Silver based vs digital</li> <li>• Future of imaging</li> </ul> <p><b>CAREERS IN PHOTOGRAPHY</b></p>		

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - Principles of Engineering**

**Grade Level: 11th-12th**

**Teacher(s): J. Ponsolle**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>INTRODUCTION TO ENGINEERING</b></p> <ul style="list-style-type: none"> <li>● COLLEGE MAJOR REPORT AND PRESENTATION RESEARCH</li> <li>● TECHNOLOGY AND SOCIETY INTERACTION</li> </ul> <p><b>AUTOCAD REVIEW</b></p> <ul style="list-style-type: none"> <li>● 3D PEN PROJECT</li> <li>● AUTOCAD DRAWINGS                             <ul style="list-style-type: none"> <li>○ 3D MODELING TOOLS IN AUTOCAD</li> </ul> </li> </ul> <p><b>CIVIL ENGINEERING</b></p> <ul style="list-style-type: none"> <li>● BRIDGE BUILDING PROJECT</li> <li>● ROLLER COASTER PROJECT</li> </ul>	<p><b>CIVIL ENGINEERING</b></p> <ul style="list-style-type: none"> <li>● CARDBOARD KAYAK PROJECT</li> <li>● AUTOCAD DRAWINGS</li> </ul> <p><b>PRESENTATION SYSTEMS</b></p> <ul style="list-style-type: none"> <li>● INVENTION REPORT AND PRESENTATION PROJECT</li> </ul> <p><b>MECHANICAL ENGINEERING</b></p> <ul style="list-style-type: none"> <li>● 2L BOTTLE ROCKET PROJECT</li> </ul> <p><b>ENGINEERING ETHICS</b></p>		



# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - 3d Modeling**

**Grade Level: 9th-10th**

**Teacher(s): J. Ponsolle**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>PROBLEM SOLVING</b></p> <ul style="list-style-type: none"> <li>● HOW TO COME UP WITH SOLUTIONS</li> </ul> <p><b>TINKER CAD REVIEW</b></p> <ul style="list-style-type: none"> <li>● HOW TO USE</li> <li>● BASIC DRAWING SKILLS</li> <li>● 3D PRINT OUT</li> </ul> <p><b>FREECAD</b></p> <ul style="list-style-type: none"> <li>● HOW TO USE</li> <li>● BASIC DRAWING SKILLS</li> <li>● 3D PRINT OUT</li> </ul>	<p><b>FUSION360</b></p> <ul style="list-style-type: none"> <li>● HOW TO USE</li> <li>● BASIC DRAWING SKILLS</li> <li>● 3D PRINT OUT</li> </ul> <p><b>VINYL CUTTER</b></p> <ul style="list-style-type: none"> <li>● HOW TO USE</li> <li>● BASIC DRAWING SKILLS</li> <li>● PRINT OUT VARIOS IMAGES THAT THE STUDENTS DESIGNED</li> </ul> <p>** DURING BOTH SEMESTERS STUDENTS WILL HAVE MANY DRAWINGS TO WORK IN IN THE VARIOUS CAD PROGRAMS BEING UTILIZED **</p>		

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - Robotics**

**Grade Level: mixed**

**Teacher(s):**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>PROBLEM SOLVING</b></p> <ul style="list-style-type: none"> <li>● HOW TO COME UP WITH SOLUTIONS</li> </ul> <p><b>EDISON ROBOTS</b></p> <ul style="list-style-type: none"> <li>● HOW TO USE</li> <li>● ONLINE CLICK AND DRAG PROGRAMMING</li> <li>● STREET DRIVE ACTIVITIES</li> <li>● DRAWING ACTIVITY</li> <li>● PING-PONG CHALLENGE BOT</li> </ul> <p><b>LEGO MINDSTORM BOTS</b></p> <ul style="list-style-type: none"> <li>● HOW TO USE</li> <li>● BUILD 1ST BOT FOLLOWING A SET OF PLANS</li> <li>● PROGRAM TO PERFORM VARIOUS TASKS</li> </ul>	<p><b>LEGO MINDSTORM BOTS</b></p> <ul style="list-style-type: none"> <li>● DESIGN OWN ROBOT FORMS</li> <li>● PROGRAM TO PERFORM VARIOUS TASKS                             <ul style="list-style-type: none"> <li>○ TENNIS BALL CHALLENGE</li> <li>○ MAZE BOT (UTILIZES MULTIPLE SENSORS)</li> <li>○ SKEE BALL BOT</li> </ul> </li> </ul> <p>** DURING BOTH SEMESTERS STUDENTS WILL HAVE MANY ROBOTS TO WORK ON AND PROGRAM TO PERFORM VARIOUS TASKS **</p>		

# CURRICULUM MAP (rev 7/24)

**Subject: Technology Education - Residential Structures**

**Grade Level: mixed**

**Teacher(s):**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>TERMINOLOGY</b></p> <ul style="list-style-type: none"> <li>● PARTS OF A WALL</li> <li>● PARTS OF A WINDOW FRAME</li> <li>● PARTS OF A DOOR FRAME</li> </ul> <p><b>MODEL HOMES</b></p> <ul style="list-style-type: none"> <li>● CONSTRUCT A SCALED DOWN MODEL OF A HOME               <ul style="list-style-type: none"> <li>○ GROUPS WILL PICK FROM 2-3 DIFFERENT HOME DESIGN TYPES</li> </ul> </li> <li>● REVIEW CONSTRUCTION PROCEDURES AS STUDENTS COMPLETE SECTIONS OF THE HOUSE               <ul style="list-style-type: none"> <li>○ FOUNDATIONS</li> <li>○ WALLS</li> <li>○ ROOF</li> </ul> </li> </ul>	<p><b>TERMINOLOGY</b></p> <ul style="list-style-type: none"> <li>● ELECTRICAL COMPONENTS</li> <li>● PLUMBING COMPONENTS</li> <li>● ROOFING MATERIAL</li> </ul> <p><b>MODEL WALLS</b></p> <ul style="list-style-type: none"> <li>● STUDENTS WILL CONSTRUCT FULL SIZE MODEL WALLS</li> <li>● INSTALL ELECTRIC OUTLET AND SWITCH</li> <li>● INSTALL A BATHROOM SINK</li> <li>● INSTALL DRYWALL</li> <li>● DISCUSS FINISHING TECHNIQUES</li> </ul> <p><b>** DURING BOTH SEMESTERS STUDENTS WILL WORK ON THE MODELS AND PERFORM VARIOUS TASKS ASSOCIATED WITH HOUSE CONSTRUCTION**</b></p>		