

# 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</b></p> <p><b>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**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<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: 165**

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: 166

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> <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> </ul> </li> <li>• Window               <ul style="list-style-type: none"> <li>○ Slide Show</li> <li>○ Show Tools</li> <li>○ Show Rulers</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> <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> </ul> </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>	<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> <li>• Internet Search using Google &amp; Ask Geeves</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>	<p style="text-align: center;"><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> <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>	<p style="text-align: center;"><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> <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>	<p style="text-align: center;"><b>WRITING</b></p> <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> <p style="text-align: center;"><b>WRITING A PIECE</b></p> <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> </ul>	<ul style="list-style-type: none"> <li>a. Document</li> </ul>	<ul style="list-style-type: none"> <li>a. top/bottom</li> </ul>	<ul style="list-style-type: none"> <li>○ Create graphic projects using the Painting application</li> </ul>
<ul style="list-style-type: none"> <li>○ AppleWorks</li> </ul>	<ul style="list-style-type: none"> <li>b. Rulers</li> </ul>	<ul style="list-style-type: none"> <li>b. left/right</li> </ul>	<ul style="list-style-type: none"> <li>○ Use of graphics tools</li> </ul>
<ul style="list-style-type: none"> <li>▪ Word Processing</li> </ul>	<ul style="list-style-type: none"> <li>c. Section</li> </ul>	<ul style="list-style-type: none"> <li>• Line Spacing</li> </ul>	<ul style="list-style-type: none"> <li>○ Use the Edit menu</li> </ul>
<ul style="list-style-type: none"> <li>▪ Drawing</li> </ul>	<ul style="list-style-type: none"> <li>d. Paragraph</li> </ul>	<ul style="list-style-type: none"> <li>a. single</li> </ul>	<ul style="list-style-type: none"> <li>○ Use of Transformations</li> </ul>
<ul style="list-style-type: none"> <li>▪ Painting</li> </ul>	<ul style="list-style-type: none"> <li>e. Insert Header</li> </ul>	<ul style="list-style-type: none"> <li>b. double</li> </ul>	<ul style="list-style-type: none"> <li>○ Use of Color fill</li> </ul>
<ul style="list-style-type: none"> <li>▪ Database</li> </ul>	<ul style="list-style-type: none"> <li>f. Insert Footer</li> </ul>	<ul style="list-style-type: none"> <li>c. triple</li> </ul>	<ul style="list-style-type: none"> <li>○ Coordination of colors</li> </ul>
<ul style="list-style-type: none"> <li>▪ Spreadsheet</li> </ul>	<ul style="list-style-type: none"> <li>• Font</li> <li>• Size</li> </ul>	<ul style="list-style-type: none"> <li>• Headers/Footers</li> <li>a. page numbers</li> </ul>	
<ul style="list-style-type: none"> <li>• Word Processing</li> </ul>	<ul style="list-style-type: none"> <li>• Style</li> </ul>	<ul style="list-style-type: none"> <li>• Print Enhancements</li> </ul>	<b>PRESENTATION OF SOFTWARE</b>
<ul style="list-style-type: none"> <li>○ Introduction</li> </ul>	<ul style="list-style-type: none"> <li>○ Plain Text</li> </ul>	<ul style="list-style-type: none"> <li>a. bold print</li> </ul>	<ul style="list-style-type: none"> <li>• Use HyperStudio to create media presentations</li> </ul>
<ul style="list-style-type: none"> <li>○ Menus</li> </ul>	<ul style="list-style-type: none"> <li>○ Bold</li> </ul>	<ul style="list-style-type: none"> <li>b. underline</li> </ul>	<ul style="list-style-type: none"> <li>• Media presentations will include:</li> </ul>
<ul style="list-style-type: none"> <li>▪ File</li> </ul>	<ul style="list-style-type: none"> <li>○ Italic</li> </ul>	<ul style="list-style-type: none"> <li>c. outline</li> </ul>	<ul style="list-style-type: none"> <li>○ text</li> </ul>
<ul style="list-style-type: none"> <li>▪ Edit</li> </ul>	<ul style="list-style-type: none"> <li>○ Underline</li> </ul>	<ul style="list-style-type: none"> <li>d. shadow</li> </ul>	<ul style="list-style-type: none"> <li>○ graphics</li> </ul>
<ul style="list-style-type: none"> <li>▪ Format</li> </ul>	<ul style="list-style-type: none"> <li>○ Shadow</li> </ul>	<ul style="list-style-type: none"> <li>e. italic</li> </ul>	<ul style="list-style-type: none"> <li>○ sound</li> </ul>
<ul style="list-style-type: none"> <li>▪ Font</li> </ul>	<ul style="list-style-type: none"> <li>○ Superscript</li> </ul>	<ul style="list-style-type: none"> <li>f. superscript</li> </ul>	<ul style="list-style-type: none"> <li>○ action buttons</li> </ul>
<ul style="list-style-type: none"> <li>▪ Size</li> </ul>	<ul style="list-style-type: none"> <li>• Window</li> </ul>	<ul style="list-style-type: none"> <li>g. subscript</li> </ul>	<ul style="list-style-type: none"> <li>○ animation</li> </ul>
<ul style="list-style-type: none"> <li>▪ Style</li> </ul>	<ul style="list-style-type: none"> <li>○ Slide Show</li> </ul>	<ul style="list-style-type: none"> <li>• Text Alignment</li> </ul>	<ul style="list-style-type: none"> <li>○ background</li> </ul>
<ul style="list-style-type: none"> <li>▪ Outline</li> </ul>	<ul style="list-style-type: none"> <li>○ Show Tools</li> </ul>	<ul style="list-style-type: none"> <li>a. centered</li> </ul>	
<ul style="list-style-type: none"> <li>▪ Window</li> </ul>	<ul style="list-style-type: none"> <li>○ Show Rulers</li> </ul>	<ul style="list-style-type: none"> <li>b. left</li> </ul>	<b>INTERNET APPLICATIONS</b>
<ul style="list-style-type: none"> <li>• File</li> <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>	<p><b>WORKING WITH A DOCUMENT</b></p> <ul style="list-style-type: none"> <li>• Beginning a document</li> <li>○ entering text</li> <li>○ inserting characters</li> <li>○ deleting characters</li> <li>○ replacing characters</li> <li>• Scrolling text</li> <li>• Saving a document</li> </ul>	<ul style="list-style-type: none"> <li>c. right</li> <li>d. fill</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</li> <li>○ Word wrap</li> <li>○ Resize</li> </ul>	<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>○ Print</li> <li>○ Quit</li> <li>• Edit</li> <li>○ Cut</li> </ul>	<ul style="list-style-type: none"> <li>• Printing a document</li> <li>• Find - find/replace text</li> <li>• Work with characters</li> <li>○ cut</li> </ul>	<ul style="list-style-type: none"> <li>○ Transformations</li> <li>○ Graphic tools</li> <li>○ Rulers</li> <li>○ Use of color</li> </ul>	<b>RESEARCH</b>
<ul style="list-style-type: none"> <li>○ Copy</li> </ul>	<ul style="list-style-type: none"> <li>○ copy</li> </ul>	<ul style="list-style-type: none"> <li>○ Keyboarding</li> </ul>	<ul style="list-style-type: none"> <li>▪ Government</li> </ul>
<ul style="list-style-type: none"> <li>○ Paste</li> </ul>	<ul style="list-style-type: none"> <li>○ paste</li> </ul>	<ul style="list-style-type: none"> <li>○ Lessons</li> </ul>	<ul style="list-style-type: none"> <li>▪ People</li> </ul>
<ul style="list-style-type: none"> <li>○ Clear</li> </ul>	<ul style="list-style-type: none"> <li>○ clear</li> </ul>	<ul style="list-style-type: none"> <li>○ Activities</li> </ul>	<ul style="list-style-type: none"> <li>▪ Land &amp; Climate</li> </ul>
<ul style="list-style-type: none"> <li>○ Select All</li> <li>○ Insert Page#</li> <li>○ Writing Tools</li> </ul>	<ul style="list-style-type: none"> <li>○ select all</li> </ul>	<ul style="list-style-type: none"> <li>• Spreadsheet</li> <li>○ Create a data spreadsheet</li> <li>○ Make a graph from the data</li> </ul>	<ul style="list-style-type: none"> <li>▪ Economy</li> <li>▪ History</li> </ul>

# CURRICULUM MAP

**Subject: Technology Education: Introduction to Technology**

**Grade Level: 8th**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<ul style="list-style-type: none"> <li>➤ What is Technology?</li> <li>➤ History Of Technology</li> <li>➤ Systems Model</li> <li>➤ Resources of Technology</li> <li>➤ Measurement</li> <li>➤ Basic Drawing                             <ul style="list-style-type: none"> <li>• Isometric</li> <li>• Orthographic</li> <li>• Oblique</li> </ul> </li> <li>➤ Problem Solving Method</li> <li>➤ Simple Machines</li> </ul>	<p>Communication Theory</p> <ul style="list-style-type: none"> <li>• Channels</li> <li>• Sender/Receiver</li> <li>• Media</li> <li>• Encoding/Decoding</li> <li>• Feedback</li> </ul> <p>Communication Systems</p> <ul style="list-style-type: none"> <li>• Graphic</li> <li>• Electronic</li> <li>• Photograp hic Resources</li> <li>• People</li> <li>• Information</li> <li>• Materials</li> <li>• Equipment/Tools</li> <li>• Energy</li> <li>• Time</li> <li>• Capital</li> </ul> <p>Information Processing</p> <ul style="list-style-type: none"> <li>• Data</li> <li>• Binary Code</li> <li>• Computer Basics</li> </ul> <p>Using Computer systems</p> <ul style="list-style-type: none"> <li>• Computer Basics</li> <li>• Word Processing</li> <li>• Computer graphics</li> <li>• Power Point</li> <li>• Photo Shop</li> </ul> <p>Audio/Visual Systems</p> <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> <p>Future of Communications</p> <ul style="list-style-type: none"> <li>• Trends      Impacts</li> </ul>	<p>Transportation</p> <ul style="list-style-type: none"> <li>• History of Types of transportation</li> <li>• Land</li> <li>• Water</li> <li>• Air</li> </ul> <p>Elements of design (Aerodynamics)</p> <ul style="list-style-type: none"> <li>• Lift</li> <li>• Drag</li> <li>• Propulsion</li> </ul> <p>TECHNICAL RESOURCES</p> <ul style="list-style-type: none"> <li>• People Information</li> <li>• Materials Tools Energy</li> <li>• Capital Time</li> <li>• Properties</li> <li>• Drafting</li> </ul> <p>PROCESSING</p> <p>RESOURCES</p> <p>(How each resource is processed/ changed-major study is materials)</p> <ul style="list-style-type: none"> <li>• Materials                             <ol style="list-style-type: none"> <li>1. Forming</li> <li>2. Separating</li> <li>3. Combining</li> <li>4. Conditioning</li> </ol> </li> <li>• Information Process</li> <li>• Energy Process</li> </ul> <p>PRODUCTION SYSTEMS</p> <ul style="list-style-type: none"> <li>• Craftsmanship to mass production operate a mass production line brain bust.</li> </ul>	<p>6 Forms Of Energy</p> <ul style="list-style-type: none"> <li>• Heat                      Electrical</li> <li>• Light                      Nuclear</li> <li>• Mechanical</li> <li>• Chemical Energy</li> </ul> <p>Conversions</p> <ul style="list-style-type: none"> <li>• Potential      Physical</li> <li>• Kinetic</li> </ul> <p>Solar Energy (Harnessing)</p> <ul style="list-style-type: none"> <li>○ Solar Home Project</li> <li>• Passive Solar Home</li> <li>• Active Solar Home</li> <li>• Direct gain</li> <li>• Indirect Gain</li> <li>• Green House Effect</li> <li>• <i>Thermal Masses (Materials)</i></li> <li>• Trombe Walls</li> <li>• Reflect/Absorb/Pa ss through(heat)</li> <li>• Radiant Energy</li> <li>• <i>Controlling Temperature</i></li> <li>• Ventilation</li> <li>• Insulation</li> <li>• Shades (Limit light/Heat)                             <ul style="list-style-type: none"> <li>○ Solar Cooker Project</li> </ul> </li> <li>• Convection</li> <li>• Conduction</li> <li>• Convection Loop</li> <li>• Radiation</li> </ul> <p>Transportation Energy</p> <p><i>Different Forms of transportation and the energy used in each device</i></p> <ul style="list-style-type: none"> <li>• Electrical              Magnetic</li> <li>• Mechanical              Wind</li> <li>• Steam</li> </ul> <p>Magnetic Levitation/Sail Boat Project</p>

# CURRICULUM MAP

**Subject: Technology Education - Computer Aided Drawing**

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

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>INTRODUCTION TO COMPUTER</b></p> <ul style="list-style-type: none"> <li>• History</li> <li>• Computer Operations</li> </ul> <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><b>DATABASES – AN OVERVIEW</b></p> <p><b>USE OF DATABASES</b></p> <ul style="list-style-type: none"> <li>• Office Designs</li> <li>• Residential Room Designs</li> <li>• Floor Plan Layouts</li> </ul> <p>Each section consists of drawings * exercises to complete each section. Project- design a home, office, factory, etc (golf course).</p>		

# CURRICULUM MAP

Subject: Technology Education - Energy

Grade Level: Mixed

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>NATURE OF ENERGY</b></p> <ul style="list-style-type: none"> <li>• Effects</li> <li>• Types</li> <li>• Forms</li> <li>• Conversion</li> <li>• Sources</li> </ul> <p><b>HARNESSING ENERGY</b></p> <ul style="list-style-type: none"> <li>• Mechanical</li> <li>• Wind power</li> <li>• Water power</li> <li>• Fossil fuels</li> <li>• Nuclear</li> <li>• Biomass</li> <li>• Solar</li> <li>• Thermal</li> </ul> <p><b>ENERGY CONVERTERS</b></p> <ul style="list-style-type: none"> <li>• Direct</li> <li>• Indirect</li> <li>• Internal</li> <li>• External</li> </ul> <p><b>ENERGY SYSTEMS</b></p> <ul style="list-style-type: none"> <li>• Components</li> <li>• Control</li> <li>• Efficiency</li> <li>• Entropy</li> <li>• Open loop</li> <li>• Closed loop</li> <li>• Subsystems</li> <li>• Transmission</li> <li>• Horsepower</li> <li>• B.T.U.</li> </ul>	<p><b>SOLAR ENERGY</b></p> <ul style="list-style-type: none"> <li>• Solar Radiation</li> <li>• Heat Transfer</li> <li>• Greenhouse Effect</li> <li>• Solar Heating</li> <li>• Passive</li> <li>• Active</li> <li>• Solar Cells</li> </ul> <p><b>HYDROPONICS</b></p> <ul style="list-style-type: none"> <li>• Systems</li> <li>• Applications</li> </ul> <p><b>CONSERVATION OF ENERGY</b></p> <ul style="list-style-type: none"> <li>• Energy-Using Sectors</li> <li>• R- Ratings</li> </ul> <p><b>CAREERS IN ENERGY</b></p> <p><b>NOTE:</b> Course content is learned through application of design and implementation of working prototypes.</p> <ul style="list-style-type: none"> <li>• Solar Cooker Design</li> <li>• Hydroponic Gardening</li> <li>• Electric Toy Design</li> </ul>		

# CURRICULUM MAP

Subject: Technology Education - Production Systems

Grade Level: 11th – 12th

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>BASIC MANUFACTURE SYSTEM</b></p> <p><b>SYSTEM INPUTS</b></p> <ul style="list-style-type: none"> <li>• Product planning needs assessment</li> <li>• Product Impacts EV., Econ., Societal, Personal</li> </ul> <p><b>RESOURCES</b></p> <ul style="list-style-type: none"> <li>• People-Jobs-Organizations</li> <li>• Info-History, Safety, Knowledge</li> <li>• Materials-Use of Conversion Characteristics</li> <li>• Tools-Machines-Operations, Functions</li> <li>• Capital-Sources</li> <li>• Energy-Types, Conversions, Application</li> <li>• Time-Quantity, Quality Management</li> </ul> <p><b>PROCESSES</b></p> <ul style="list-style-type: none"> <li>• Forming</li> <li>• Separating</li> <li>• Combining</li> <li>• Conditioning</li> </ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"> <li>• Products-Packaging, Distributing, Servicing</li> <li>• Impacts-Env., Eco., Societal, Personal</li> </ul> <p><b>CONTROL</b></p>	<p><b>BASIC MANUFACTURE SYSTEM</b></p> <p><b>SYSTEM INPUTS</b></p> <ul style="list-style-type: none"> <li>• Product planning needs assessment</li> <li>• Product Impacts EV., Econ., Societal, Personal</li> </ul> <p><b>RESOURCES</b></p> <ul style="list-style-type: none"> <li>• People-Jobs-Organizations</li> <li>• Info-History, Safety, Knowledge</li> <li>• Materials-Use of Conversion Characteristics</li> <li>• Tools-Machines-Operations, Functions</li> <li>• Capital-Sources</li> <li>• Energy-Types, Conversions, Application</li> <li>• Time-Quantity, Quality Management</li> </ul> <p><b>PROCESSES</b></p> <ul style="list-style-type: none"> <li>• Forming</li> <li>• Separating</li> <li>• Combining</li> <li>• Conditioning</li> </ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"> <li>• Products-Packaging, Distributing, Servicing</li> <li>• Impacts-Env., Eco., Societal, Personal</li> </ul>		

## CURRICULUM MAP

<ul style="list-style-type: none"><li>• Reason</li><li>• Method</li></ul>	<b>CONTROL</b> <ul style="list-style-type: none"><li>• Reason</li><li>• Method</li></ul>		
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# CURRICULUM MAP

**Subject: Technology Education - Digital Photography Photoshop CS6**

**Grade Level: 10-12**

**Teacher(s): Mrs. E. Whorley**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<ul style="list-style-type: none"> <li>1. Various Camera Modes and their uses</li> <li>2. Flash Modes</li> <li>3. ISO settings</li> <li>4. White Balance</li> <li>5. Drive Modes</li> <li>6. Lens Focal Length</li> <li>7. Exposure Compensation</li> <li>8. Focusing Options</li> <li>9. Depth of Field</li> <li>10. Macro Photography</li> <li>11. Portraiture</li> <li>12. Landscape</li> <li>13. Action Photography</li> <li>14. Still Life</li> <li>15. Candid Photography</li> <li>16. Indoor Photography</li> </ul>	<ul style="list-style-type: none"> <li>17. Fine Art Photography</li> <li>18. Black and White (Monochrome)</li> <li>19. Basic Techniques of Lighting (Including: Front, Side, Back, Defused, etc.)</li> <li>20. Basic Photo Composition (Including: Rule of 3rds, Leading Lines, Framing Subjects, etc.)</li> <li>21. Basic Photo Editing (Using Photoshop CS6)</li> <li>22. Special Photoshop Creative Ideas involving use of layers</li> <li>23. High Dynamic Range (H.D.R.) Photography</li> <li>24. Knowledge of Pixels, Mega Pixels, DPI, PPI</li> </ul> <p>Final Project- may include but are not limited to ZOMBIES, Fantasy Compilations, independent</p> <p><b>CAREERS IN PHOTOGRAPHY</b> VISUAL AND GRAPHIC ARTS.</p>		

# CURRICULUM MAP

Subject: Technology Education - Architectural Drafting  
 Teacher(s): Mrs. E. Whorley

Grade Level: 10th-12th

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
LETTERING, SCALES & PLOT PLANS	STAIR & CONSTRUCTION DETAILS		
LANDSCAPING & FLOOR PLANS, SYMBOLS	DIMENSIONING FLOOR PLANS		
FOUNDATIONS & FLOOR PLANS			
ROOM AND AREA PLANNING	WALL MATERIALS & CORNICE DETAILS		
BATH SYMBOLS, KITCHEN SYMBOLS, ELECTRICAL SYMBOLS	WALL SECTIONS ROOM FINISHING SCHEDULES		
ADA design and compliance	ROOFS & PERSPECTIVES		
<b>TOOLS AND TECHNIQUES</b> <ul style="list-style-type: none"> <li>• Scales</li> <li>• Drafting Instruments</li> <li>• Papers, Pencils</li> <li>• Computer Aided Design</li> <li>• Timesavers</li> <li>• Drawing Techniques</li> </ul> <b>LETTERING</b> <b>HISTORY</b> <b>AESTHETICS</b> <ul style="list-style-type: none"> <li>• Elements of Design</li> <li>• Principles of Design</li> <li>• Creativity</li> <li>• Functional Design</li> </ul> <b>PLANNING &amp; DRAWING</b> <ul style="list-style-type: none"> <li>• <b>SITE PLAN</b></li> <li>• <b>TOPOGRAPHIC AL LOCATION</b></li> <li>• <b>LANDSCAPE SYMBOLS</b></li> </ul>	<b>ELEVATIONS</b> <b>OCCUPATIONS &amp; CAREERS</b> <b>PLANNING/DRAWING</b> <ul style="list-style-type: none"> <li>• Area/Room Plans</li> <li>• Floor Plans</li> </ul> <b>ARCHITECTURAL DRAWING TECHNIQUES</b> <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> <b>CAREER EXPLORATION</b> <b>CURRENT TRENDS IN ARCHITECTURE AND TECHNOLOGY FIELDS.</b>		
<u>TERM PROJECT-</u> ADA compliant floor plan and model	<u>FINAL EXAM</u> Design and draw a structure and build a model. Structure to be determined due to relevancy of current events and Architectural trends.		



# CURRICULUM MAP (rev 6/03 no change as of 1/01)

**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 Applications</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>● Prototype 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 Applications</li> <li>● C.A.D.</li> </ul> <p><b>TRANSITIONS AND DEVELOPMENTS</b></p> <ul style="list-style-type: none"> <li>● Designs Brief Challenge</li> <li>● Techniques Applications</li> <li>● C.A.D.</li> </ul>	<p><b>AUXILIARIES</b></p> <ul style="list-style-type: none"> <li>● Design Brief Challenge</li> <li>● Techniques Applications</li> <li>● C.A.D.</li> </ul> <p><b>REVOLUTIONS</b></p> <ul style="list-style-type: none"> <li>● Designs Brief Challenge</li> <li>● Techniques Applications</li> <li>● C.A.D.</li> </ul>

# CURRICULUM MAP

**Subject: Technology Education – Communication Systems**

**Grade Level: Mixed**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>GRAPHIC COMMUNICATION SYSTEMS</b></p> <p><b>INPUTS</b></p> <ul style="list-style-type: none"> <li>• Address client’s needs</li> <li>• Select the best approach</li> <li>• Confirm solution</li> </ul> <p><b>RESOURCES</b></p> <ul style="list-style-type: none"> <li>• People</li> <li>• Information</li> <li>• Materials</li> <li>• Graphic equipment</li> <li>• Energy</li> <li>• Time</li> <li>• Capital &amp; facilities</li> </ul> <p><b>PROCESSES</b></p> <ul style="list-style-type: none"> <li>• Planning</li> <li>• Preparing image transfer</li> <li>• Image transfer</li> <li>• Finishing techniques</li> <li>• Evaluation/monitoring</li> </ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"> <li>• Product</li> <li>• Impacts</li> </ul> <p><b>FEEDBACK/CONTROL</b></p> <ul style="list-style-type: none"> <li>• Human control</li> <li>• Program control</li> <li>• Automated control</li> </ul> <p><b>ASSIGNMENTS:</b></p> <ul style="list-style-type: none"> <li>• Business Card</li> <li>• Ad layout</li> <li>• Newspaper Ad</li> <li>• Billboard Design</li> </ul>	<p><b>AUDIO/AUDIOVISUAL SYSTEMS</b></p> <p><b>INPUTS</b></p> <ul style="list-style-type: none"> <li>• Address client’s needs</li> <li>• Select the best approach</li> <li>• Confirm solution</li> </ul> <p><b>RESOURCES</b></p> <ul style="list-style-type: none"> <li>• People</li> <li>• Information</li> <li>• Materials</li> <li>• AAV equipment</li> <li>• Energy</li> <li>• Time</li> <li>• Capital &amp; facilities</li> </ul> <p><b>PROCESSES</b></p> <ul style="list-style-type: none"> <li>• Planning</li> <li>• Preparing image transfer</li> <li>• Image transfer</li> <li>• Finishing techniques</li> <li>• Evaluation/monitoring</li> </ul> <p><b>OUTPUTS</b></p> <ul style="list-style-type: none"> <li>• Product</li> <li>• Impacts</li> </ul> <p><b>FEEDBACK/CONTROL</b></p> <ul style="list-style-type: none"> <li>• Human control</li> <li>• Program control</li> <li>• Automated control</li> </ul> <p><b>ASSIGNMENTS:</b></p> <ul style="list-style-type: none"> <li>• Video ID</li> <li>• Audio commercial</li> <li>• Music video</li> <li>• Computer Digital Video</li> <li>• Video essay</li> </ul>		

# CURRICULUM MAP

Subject: Technology Education – LEGO Robotics course

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

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>HISTORY OF ROBOTICS USES</b></p> <ul style="list-style-type: none"> <li>• military</li> <li>• civilian</li> <li>• hobby</li> </ul> <p><b>IMPACT ON SOCIETY</b></p> <ul style="list-style-type: none"> <li>• CAREERES</li> </ul> <p><b>BASIC ROBOTICS CONSTRUCTION</b></p> <p><b>ROBOT CONSTRUCTION 1</b></p> <ul style="list-style-type: none"> <li>• Assemble a small simple two wheel robot following a set of plans</li> <li>• Program robot to perform a basic task</li> </ul> <p><b>ROBOT CONSTRUCTION 2</b></p> <ul style="list-style-type: none"> <li>• Assemble a more complex robot following a set of plans</li> <li>• Program robot to perform a multiple tasks</li> </ul>	<p><b>ROBOT CONSTRUCTION 3-TENNIS BALL CHALLENGE</b></p> <ul style="list-style-type: none"> <li>• <b>Design/build a robot to “score” a tennis ball into a series of holes on the playing surface</b></li> <li>• Assemble a robot following a set of plans developed by the team</li> <li>• Program robot to perform a series of tasks</li> </ul> <p><b>ROBOT CONSTRUCTION 4-RACE TRACK CHALLENGE</b></p> <ul style="list-style-type: none"> <li>• <b>Design/build a robot to complete a road style race course</b></li> <li>• Assemble a robot following a set of plans developed by the team</li> <li>• Program robot to perform a series of tasks</li> </ul>		

# CURRICULUM MAP

**Subject: Technology Education – Residential Structures**

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

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>HOME DESIGN STYLES AND DEFINITIONS</b></p> <ul style="list-style-type: none"> <li>• residential</li> <li>• commercial</li> <li>• impact on society</li> <li>• careers</li> </ul> <p><b>HOME CONSTRUCTION</b></p> <ul style="list-style-type: none"> <li>• materials</li> <li>• foundations</li> <li>• roof types</li> <li>• siding</li> </ul> <p><b>MODEL HOME BUILD</b></p> <ul style="list-style-type: none"> <li>• assemble various model homes</li> </ul>	<p><b>FULL SIZE MODEL OF CORNER ROOM</b></p> <ul style="list-style-type: none"> <li>• <b>Build a subfloor and frame out walls for a corner room in a life size, practical example</b></li> <li>• Electrical needs- install outlets and switches</li> <li>• Plumbing needs- install lines and drains</li> <li>• Roof example- felt and shingle install</li> </ul>		

# CURRICULUM MAP

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

**Grade Level: Mixed**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
<p><b>INTRODUCTION TO ENGINEERING</b></p> <ul style="list-style-type: none"> <li>• Modeling</li> <li>• Systems</li> <li>• Optimizations</li> <li>• Design</li> <li>• Ethics</li> <li>• Technology and Society               <ul style="list-style-type: none"> <li>○ Interaction</li> </ul> </li> </ul> <p><b>CIVIL ENGINEERING</b></p> <ul style="list-style-type: none"> <li>• Case Study: Bridge Building and Structure Analysis</li> <li>• Design Brief</li> </ul>	<p><b>REVERSE ENGINEERING</b></p> <ul style="list-style-type: none"> <li>• Design Brief</li> <li>• Door Handle</li> </ul> <p><b>TECHNICAL DRAWING</b></p> <ul style="list-style-type: none"> <li>• Orthographic</li> </ul> <p>Projection Isometric</p> <p><b>MODELING SYSTEMS USED THROUGH OUT THE YEAR ON ALMOST ALL PROJECTS</b></p>	<p><b>MACHINE AUTOMATION AND CONTROL-</b></p> <ul style="list-style-type: none"> <li>• Hydraulic Arm</li> <li>• Drawings</li> <li>• Presentations</li> </ul> <p><b>TECHNOLOGY</b></p> <ul style="list-style-type: none"> <li>• Society Interactions</li> </ul> <p><b>ELECTRICAL ENGINEERING</b></p> <ul style="list-style-type: none"> <li>• Plans</li> <li>• Modeling</li> </ul>	<p><b>MECHANICAL ENGINEERING</b></p> <ul style="list-style-type: none"> <li>• Brainstorming</li> <li>• Design Brief</li> <li>• Problem Solving</li> <li>• Research</li> <li>• Modeling</li> </ul>