



Recommended 6-7-8th Grade Curriculum Framework

Topic: Electronics Module						
Content (What do your students need to KNOW?)	Demonstrators (What do your students need to be able to DO?)	Assessment (How will you assess what your students ALREADY KNOW, and assess WHAT THEY'VE LEARNED?)	Activities (HOW will you teach it?)	Resources (What MATERIALS will you need?)	Differentiation (How will you reach the DIVERSITY of learners?)	Literacy Connection (How will you use READING and WRITING with this material?)
<p>PL-M 4.4.3 Both individual and team skills (e.g., identify goals, use listening skills, follow directions, communicate orally, ask questions about tasks, use problem-solving skills) contribute to the successful completion of a task.</p> <p>PL-M 4.1.4 New jobs and careers emerge and others are deleted due to the needs of society (e.g., increased need for nursing home care due to people living longer, day care due to more people working).</p> <p>PL-M 4.2.3 There are resources (e.g., Internet, government publications, newspapers, magazines, counselors) and experiences (e.g., shadowing, mentoring) available for locating job and career</p>	<p>KY Academic Expectations Goal 1:</p> <p>1.1 Students use reference tools such as dictionaries, almanacs, encyclopedias, and computer reference programs and research tools such as interviews and surveys to find the information they need to meet specific demands, explore interests, or solve specific problems.</p> <p>1.2 Students make sense of the variety of materials they read.</p> <p>1.3 Students make sense of the various things they observe.</p> <p>1.4 Students make sense of the various messages to which they listen.</p> <p>1.5 Students use mathematical ideas and procedures to communicate, reason, and solve problems.</p> <p>1.16 Students use computers and other kinds of</p>	<p>Open Response Prompt Item Bank @ http://www.jefferson.k12.ky.us/orecontent/ <i>password: orq2002</i></p> <p>Module Guide Questions</p> <p>Research Challenge and Application Questions</p> <p>Carnival Review</p> <p>Post-test</p> <p>Enrichments</p>	<p>Activity 1: Solderless Circuits: Night Light</p> <p>Activity 2: Solderless Circuits: Invisible Beam Alarm</p> <p>Activity 3: Solderless Circuits: Police Siren</p> <p>Activity 4: Printed Circuit Boards and Soldering Practice</p> <p>Activity 5 & 6: Kit Assembly</p> <p>Activity 7: Solderless Circuits: Touch Switch</p>	<ul style="list-style-type: none"> ❖ Synergistic Systems Modules ❖ Computer ❖ Support Materials: ❖ Resource Texts <ul style="list-style-type: none"> • Technology In Your World • The New Way Things Work • Student Dictionary • Occupational Outlook Handbook • Technical Writing ❖ Consumable Items: <ul style="list-style-type: none"> • Blinky Kits • Electronic Component Kit • Trainer Board • Red and Black Leads • Soldering Iron • Solder • Safety Glasses • Sponge • Electronic Construction Caddy 	<p>Visual Learning:</p> <ul style="list-style-type: none"> ❖ Videos ❖ Pictures <p>Auditory Learning</p> <ul style="list-style-type: none"> ❖ Listening <p>Kinesthetic Learning</p> <ul style="list-style-type: none"> ❖ Hands on Activities 	<ul style="list-style-type: none"> ❖ Reading During Module Guide ❖ Looking up answers to RCA questions.

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<p>locating job and career information. PL-M 4.2.4 There are various postsecondary options available (e.g., technical or vocational schools, 2-year college, 4-year college, apprenticeship, military service). PL-M 4.3.2 The work habits and work ethics (e.g., cooperation, respect, time, management, team/individual responsibilities) of an individual can impact the success of a group. PL-M 4.4.2 The use of various types of technology (e.g., word processing, Internet access) has increased, continues to change, and has an impact on the workplace. Program of Studies ❖ Identify and become aware of ways technology has been used to meet human needs in the home, school, community, and</p>	<p>and other kinds of technology to collect, organize, and communicate information and ideas. KY Academic Expectations Goal 2: 2.3 Students identify and analyze systems and the ways their components work together or affect each other. 2.36 Students use strategies for choosing and preparing for a career. 2.37 Students demonstrate skills and work habits that lead to success in future schooling and work. 2.38 Students demonstrate skills such as interviewing, writing resumes, and completing applications that are needed to be accepted into college or other postsecondary training or to get a job. KY Academic Expectations</p>			<ul style="list-style-type: none"> • Diagonal Cutting Pliers • Wire Strippers • 18 gauge wires 		

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<p>workplace. *Analyze current and emerging issues related to technology.</p> <ul style="list-style-type: none"> ❖ Explore Technological concepts and processes in the contexts of communication, transportation, production, bio-related, and emerging technological systems. ❖ Understand the role of technology in producing products and services ❖ Effectively use interpersonal and productive team member skills ❖ Identify opportunities, characteristics, and preparation requirements for current and emerging technological occupations. 	<p>Goal 5: 5.2 Students use creative thinking skills to develop or invent novel, constructive ideas or products. 5.3 Students organize information to develop or change their understanding of a concept. 5.4 Students use a decision-making process to make informed decisions among options.</p> <p>KY Academic Expectations Goal 6: 6.3 Students expand their understanding of existing knowledge by making connections with new knowledge, skills, and experiences</p> <p>ITEA National Standards for Technological Literacy:</p> <p>Standard 2 Students will develop an understanding of the core concepts of technology.</p> <p>Standard 12 Standard 12: Students will develop abilities to use and maintain technological products</p>					

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	and systems. Standard 17 Students will develop an understanding of and be able to select and use information and communication technologies.					