

<b>SUBJECT: Residential Construction</b>		<b>GRADE: 10-12</b>	
<b>Unit Title: Introduction to Residential Construction</b>		<b>Time Frame: Days 1-9</b>	
<b>UNIT OVERVIEW</b>			
<p>Students will learn about various building and roof styles</p> <p>Identify the importance and need for residential construction in everyday living</p> <p>Learn how to read plans/ technical drawings</p> <p>Students will be able to identify various structural members of a framing system</p>			
<b>LRG SKILLS AND DISPOSITIONS</b>		<b>PA STANDARDS</b>	
<p>Communication &amp; Empathy: Introductory course information (S2C)</p> <p>Continual Learning &amp; A Growth Mindset: Introductory course information (D2C)</p>		<p>3.5.9-12.F, 3.5.9-12.H, 3.5.9-12.BB, 3.5.9-12.GG 3.5.9-12.KK</p>	
<b>COMPETENCIES</b>		<b>LEARNING TARGETS</b>	
Core Concepts of Technology and Engineering		<ul style="list-style-type: none"> <li>I can demonstrate the use of conceptual, graphical, virtual, mathematical, and physical modeling to identify conflicting considerations before the entire system is developed and to aid in design decision making (K1TEB2M1)</li> </ul>	
		<ul style="list-style-type: none"> <li>I can cite examples of the criteria and constraints of a product or system and how they affect final design (K1TEB2M5)</li> </ul>	
Design in Technology and Engineering Education		<ul style="list-style-type: none"> <li>I can determine the best approach by evaluating the purpose of the design (K1TEB7M1)</li> </ul>	

	<ul style="list-style-type: none"> <li>• I can apply principles of human-centered design (K1TEB7M4)</li> <li>• I can apply a broad range of design skills to their design process (K1TEB7M7)</li> </ul>
--	---

<b>SUBJECT: Residential Construction</b>	<b>GRADE: 10-12</b>
--	---------------------

<b>Unit Title:</b> Safety in the Lab Setting/ On site	<b>Time Frame:</b> Days 9-15
---	------------------------------

<b>UNIT OVERVIEW</b>
----------------------

Students will be able to:  
 Safely use different types of machinery  
 Identify different machines  
 Safely use different hand and power tools

<b>LRG SKILLS AND DISPOSITIONS</b>	<b>PA STANDARDS</b>
------------------------------------	---------------------

Honesty, Integrity, & Responsibility: Safety Demonstrations (D3C)	3.5.9-12.B 3.5.9-12.C 3.5.9-12.D 3.5.9-12.E
---	--

<b>COMPETENCIES</b>	<b>LEARNING TARGETS</b>
---------------------	-------------------------

Core Concepts of Technology and Engineering	<ul style="list-style-type: none"> <li>• I can implement quality control as a planned process to ensure that a product, service, or system meets established criteria (K1TEB2M6)</li> </ul>
---	---

<b>SUBJECT: Residential Construction</b>		<b>GRADE: 10-12</b>	
<b>Unit Title: Residential Construction Systems</b>		<b>Time Frame: Days 15-30</b>	
<b>UNIT OVERVIEW</b>			
Students will apply building techniques to a small scale class project that will include framing, roofing, siding, and finish carpentry.			
<b>LRG SKILLS AND DISPOSITIONS</b>		<b>PA STANDARDS</b>	
<p>Communication &amp; Empathy: Working in the lab environment (S2C)</p> <p>Continual Learning &amp; A Growth Mindset: Working in the lab environment (D2C)</p> <p>Resilience &amp; Grit: Working in the lab environment (D4C)</p> <p>Critical Thinking &amp; Problem Solving: Working in the lab environment (S4C)</p>		<p>3.1.10ABCDE</p> <p>3.2.10D</p> <p>3.6.10BC</p> <p>3.7.10AB</p> <p>3.8.10BC</p>	
<b>COMPETENCIES</b>		<b>LEARNING TARGETS</b>	
Core Concepts of Technology and Engineering		<ul style="list-style-type: none"> <li>● I can demonstrate the use of conceptual, graphical, virtual, mathematical, and physical modeling to identify conflicting considerations before the entire system is developed and to aid in design decision making (K1TEB2M1)</li> <li>● I can cite examples of the criteria and constraints of a product or system and how they affect final design (K1TEB2M5)</li> <li>● I can implement quality control as a planned process to ensure that a product, service, or system meets established criteria (K1TEB2M6)</li> </ul>	

Design in Technology and Engineering Education	<ul style="list-style-type: none"> <li>• I can determine the best approach by evaluating the purpose of the design (K1TEB7M1)</li> <li>• I can apply principles of human-centered design (K1TEB7M4)</li> <li>• I can apply a broad range of design skills to their design process (K1TEB7M7)</li> </ul>
--	---

<b>SUBJECT: Residential Construction</b> <span style="float: right;"><b>GRADE: 10-12</b></span>	
<b>Unit Title: Practical Building Application</b>	<b>Time Frame: Days 30-90</b>
<b>UNIT OVERVIEW</b>	
Students will apply building techniques to a full scale class project that will include framing, roofing, siding, and finish carpentry.	
<b>LRG SKILLS AND DISPOSITIONS</b>	<b>PA STANDARDS</b>
Continual Learning & A Growth Mindset: Working on a jobsite environment (D2C) Resilience & Grit: Working on a jobsite environment (D4C) Critical Thinking & Problem Solving: Working on a jobsite environment (S4C) Communication & Empathy: Working on a jobsite environment (S2C)	3.5.9-12.B 3.5.9-12.C 3.5.9-12.D 3.5.9-12.E
<b>COMPETENCIES</b>	<b>LEARNING TARGETS</b>
Core Concepts of Technology and Engineering	<ul style="list-style-type: none"> <li>• I can demonstrate the use of conceptual, graphical, virtual, mathematical, and physical modeling to identify conflicting</li> </ul>

	<p>considerations before the entire system is developed and to aid in design decision making (K1TEB2M1)</p> <ul style="list-style-type: none"> <li>● I can cite examples of the criteria and constraints of a product or system and how they affect final design (K1TEB2M5)</li> <li>● I can implement quality control as a planned process to ensure that a product, service, or system meets established criteria (K1TEB2M6)</li> </ul>
<p>Design in Technology and Engineering Education</p>	<ul style="list-style-type: none"> <li>● I can determine the best approach by evaluating the purpose of the design (K1TEB7M1)</li> <li>● I can apply principles of human-centered design (K1TEB7M4)</li> <li>● I can apply a broad range of design skills to their design process (K1TEB7M7)</li> </ul>