



## **LAWRENCE COUNTY CAREER AND TECHNICAL CENTER**

750 Phelps Way, New Castle, PA 16101-5099 724-658-3583 Fax 724-658-4753 [www.lcctceagles.com](http://www.lcctceagles.com)

### **Table of Contents - Course Name**

Add Headings (Format > Paragraph styles) and they will appear in your table of contents.

#### **I. Stage 1 - Desired Results**

A. Big Idea: Understanding the Characteristics and Applications of Nonstructural Panels

B. Essential Question: What are the different types of nonstructural panels, and how are they used in construction and design?

#### **C. Learning Objectives:**

1. Students will be able to identify different types of nonstructural panels based on their characteristics.
2. Students will be able to describe the physical properties and uses of different types of nonstructural panels.
3. Students will be able to analyze and evaluate the suitability of different types of nonstructural panels for specific applications.

#### **II. Stage 2 - Assessment Evidence**

#### **A. Performance Tasks:**

1. Students will research and create a presentation on a specific type of nonstructural panel, including its characteristics, physical properties, and uses.

Students will work in groups to design and present a proposal for a project that incorporates nonstructural panels in its design, and explain their choices of panels based on the project requirements.

2. B. Other Evidence:
3. Class discussions and debates on the advantages and disadvantages of different types of nonstructural panels for specific applications.
4. Quizzes and exams on the characteristics and uses of different types of nonstructural panels.



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### III. Stage 3 - Learning Plan

#### A. Learning Activities:

1. Introduction to different types of nonstructural panels, including particleboard, MDF, hardboard, and tempered hardboard.
2. Research and presentation on specific types of nonstructural panels, including their composition, physical properties, and uses in different contexts.
3. Lab experiments and demonstrations to explore the physical properties of different types of nonstructural panels, such as strength, density, and moisture resistance.
4. Project-based learning activities to apply knowledge of nonstructural panels in real-world contexts, such as designing and building a furniture piece or interior finish.
5. Field trips to local construction sites or manufacturers to observe the different types of nonstructural panels available and their uses.

#### B. Differentiation:

1. Students will work in small groups with similar interests and abilities for the project-based learning activities.
2. Visual aids and multimedia resources will be used to support students with different learning styles.
3. Additional readings and research assignments will be provided for advanced students to deepen their understanding of the subject matter.

### UbD Curriculum Overview

<b>Department</b>			
<b>Course Name</b>			
<b>Course Summary</b>			
<b>Unit Name</b>			
<b>Grade Level(s)</b>		<b>Time / Duration</b>	



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<b>Created (Date)</b>		<b>Revised (Date)</b>	
<b>Standards Addressed</b>			
List all standards that will be addressed during the unit.			

<b>Stage 1 - Desired Results: Enduring Understandings &amp; Essential Questions</b> <i>What are the overarching takeaways and big ideas for students?</i>	
<b>Big Ideas</b>	1. Big Idea: Understanding the Characteristics and Applications of Nonstructural Panels
<b>Transfer</b>	<i>Students will be able to independently use their learning to...</i> <ul style="list-style-type: none"> <li>•</li> </ul>
<b>Meaning</b>	<i>Students will understand that...</i> <ul style="list-style-type: none"> <li>•</li> </ul>
<b>Essential Questions</b>	<ol style="list-style-type: none"> <li>1. What are the different types of nonstructural panels, and how are they used in construction and design?</li> <li>2.</li> </ol>

<b>Stage 1 - Essential Content, Concepts, &amp; Skills</b> <i>What do we want students to know and be able to do?</i>	
<b>Acquisition</b>	
<b>Knowledge</b>	<i>Students will know...</i> Students will be able to identify different types of nonstructural panels based on their characteristics. <ul style="list-style-type: none"> <li>• Students will be able to describe the physical properties and uses of different types of nonstructural panel</li> <li>•</li> </ul>
<b>Skills</b>	<i>Students will be skilled at (be able to do)...</i> <ul style="list-style-type: none"> <li>• Students will be able to identify different types of nonstructural panels based on their characteristics.</li> </ul>



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**Stage 2 - Assessments / Evidence of Learning**

*What are the formative (informal) and summative (formal) assessments used to measure learning and growth? How will you know that they did it?*

Evaluation Criteria (F/S)	Assessment Evidence
Formative Evaluation <ul style="list-style-type: none"> <li>•</li> </ul> Summative Evaluation <ul style="list-style-type: none"> <li>•</li> </ul>	Performance Task(s) / Think:  <div style="border: 1px solid #ccc; background-color: #cccccc; padding: 5px; margin-bottom: 5px;"> <ul style="list-style-type: none"> <li>•</li> </ul> </div> <div style="border: 1px solid #ccc; background-color: #cccccc; padding: 5px;">           Other Evidence:  <ul style="list-style-type: none"> <li>•</li> </ul> </div>

**Stage 3 - Learning Plan**

*What are the differentiated instructional strategies, activities, lesson plans that support the enduring understandings and essential questions for all students? This section provides a summary of the Key Learning Events and Instruction.*

**Summary of Key Learning Events and Instruction**

<ul style="list-style-type: none"> <li>•</li> </ul>
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**Resources**

<ul style="list-style-type: none"> <li>•</li> </ul>
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