

Topic: E-5-Woodworking

Days: 27

Subject(s): Vocations

Grade(s): 9th

Know:

Understand:

Do:

<p><b>3.4.12.A2. – Essential</b>  <b>CORE CONCEPTS OF TECHNOLOGY</b> - Describe how management is the process of planning, organizing, and controlling work.</p>	<p>Students should understand the steps that need to be used to complete projects</p>	<p><b>3.4.12.A2. – Essential</b>  <b>CORE CONCEPTS OF TECHNOLOGY</b> - Describe how management is the process of planning, organizing, and controlling work.</p> <p><b>3.4.12.C2. – Essential</b>  <b>ENGINEERING DESIGN</b> - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.</p> <p><b>13.1.D – Important</b>                  Explain the relationship of career training programs to employment opportunities.</p> <p><b>13.3.E – Essential</b>                  Identify and apply time management strategies as they relate to both personal and work situations.</p> <p><b>13.3.A – Important</b>                  Determine attitudes and work habits that support career retention and advancement.</p> <p>Utilize the proper procedures and skills for completing projects.                  Demonstrate proper work ethic in the laboratory                  Complete planned projects</p>
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Common Assessments on what students should know and do in this unit:

- Work Ethic
- Skill Development
- Planned Projects

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2. Assessments 1

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Short Description:

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Work Ethic

Long Description:

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Students will demonstrate the proper work ethic in the laboratory

Differentiation:

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Modification will be made when necessary for different levels of learning

Time (in days):

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1

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2. Assessments 2

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Short Description:

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Skill Development

Long Description:

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Students will utilize the proper procedures and skills for completing projects

Differentiation:

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Modification will be made when necessary for different levels of learning

Time (in days):

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1

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2. Assessments 3

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Short Description:

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Planned Projects

Long Description:

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Students will complete planned projects

Differentiation:

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Modification will be made when necessary for different levels of learning

Time (in days):

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1

Topic: E-5-Woodworking

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2. Culminating Activity 1

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Short Description:

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Time (in days):

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1

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**Key Learning:**  
 Students should understand the steps that should be used to complete planned projects.



Unit Essential Question(s):  
**How are the steps that are used to complete a planned project applied?**

<p><b>Concept:</b>  <b>Toolbox</b>  <small>13.1.D, 13.3.A, 3.4.12.A2., 3.4.12.C2., 13.3.E</small></p>	<p><b>Concept:</b>  <b>Concrete Float</b>  <small>13.3.E, 3.4.12.C2., 3.4.12.A2., 13.3.A, 13.1.D</small></p>	<p><b>Concept:</b>  <b>Bluebird Box</b>  <small>13.1.D, 13.3.A, 3.4.12.A2., 3.4.12.C2., 13.3.E</small></p>
<p><b>Lesson Essential Question(s):</b>          How are the procedures used to complete the toolbox project? ANSWER: Refer to the Bill of Materials (A)</p>	<p><b>Lesson Essential Question(s):</b>          How are the procedures used to complete the concrete float project? ANSWER: Refer to the Bill of Materials (A)</p>	<p><b>Lesson Essential Question(s):</b>          How are the procedures used to complete a bluebird box project? ANSWER: Refer to the Bill of Materials (A)</p>
<p><b>Vocabulary:</b>          , Safety Adjustment, Dado, Chamfer, Rabbit Joint, Bill of Materials, Measuring, Cutting, Sanding, Gluing, Staining/Clearcoat, Safety Glasses</p>	<p><b>Vocabulary:</b>          Gluing, Sanding, Cutting, Measuring, Bill of Materials, Safety Adjustment, Drilling, Staining/Clearcoat, Safety Glasses</p>	<p><b>Vocabulary:</b>          Gluing, Sanding, Cutting, Bill of Materials, Measuring, Safety Adjustment, Drilling, Safety Glasses</p>

**Additional Information:**

**Attached Document(s):**

Vocab Report for Topic: E-5-Woodworking

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**Concept:**

Toolbox

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- Safety Adjustment - The adjustments made to provide safety for the operator
- Dado - A type of blade used to insert a wider kerf into wood
- Chamfer - An angled edge cut into a board
- Rabbit Joint - A type of joint used to connect peices of wood
- Bill of Materials - A plan used to create/complete projects
- Measuring - An activity used to ensure proper dimensions
- Cutting - A procedure used to ensure proper materials
- Sanding - A procedure used to smooth wooden boards
- Gluing - A procedure used to connect boards
- Staining/Clearcoat - A coating that is applied to preserve and color a project
- Safety Glasses - Equipment used to protect the operator's eyes

**Concept: Concrete Float**

- Gluing - A procedure used to connect wooden material
- Sanding - A procedure used to smooth wooden pieces
- Cutting - A procedure used to ensure proper materials
- Measuring - A procedure used to ensure proper dimensions
- Bill of Materials - A plan used to create/complete projects
- Safety Adjustment - Adjustments made to ensure safety for the operator
- Drilling - A procedure used to create holes in a project
- Staining/Clearcoat - A coating that is applied to preserve and color a project
- Safety Glasses - Equipment used to protect the operator's eyes

**Concept: Bluebird Box**

- Gluing - A procedure used to connect wooden material
- Sanding - A method used to smooth wooden material
- Cutting - A procedure used to ensure the proper material for a project
- Bill of Materials - A plan used to create/complete a project
- Measuring - A procedure used to ensure proper dimensions
- Safety Adjustment - Adjustments made to ensure the safety of an operator
- Drilling - A procedure used to create planned holes in a project
- Safety Glasses - Equipment used to protect the operator's eyes



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5. Launch Activity 1

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**How are you going to get students engaged?**

Develop student interest and link their prior knowledge.  
Start the Student Learning Map of the unit with students.  
Preview key vocabulary with students.:

**Short Description:**

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Describe the steps used in building a project

**Long Description:**

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Students will explain in written form the steps used to construct a project

**Differentiation:**

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Modification will be made when necessary for different levels of learning

**Time (in days):**

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1

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Concept: Toolbox

## 5. Acquisition Lesson

Plan for the Concept, Topic, or Skill -- Not for the Day

### Lesson Essential Question:

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How are the procedures used to complete the toolbox project?

ANSWER: Refer to the Bill of Materials

What do students need to learn to be able to answer the Essential Question?

Assessment Prompt 1: How are instructional steps used to create a toolbox?

### Activating Strategy:

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Brainstorm Web

Key vocabulary to preview:

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Word Splash

### Teaching Strategies:

Graphic Organizer:

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Flow Chart

Instruction:

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Distribute guided practice

**AP:** How are instructional steps used to create a toolbox?

Assignment and/or Assessment:

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Completed Project

Extending Thinking Activity:

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Error Analysis

### Summarizing Strategy:

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3-2-1

Differentiation:

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Concept: Toolbox

### 5. Acquisition Lesson

Modification will be made when necessary for different levels of learning

Review / Revise:

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Question Prompts

Resources and Materials:

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Bill of Materials

Time (in days):

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10

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Days: 27

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Grade(s): 9th

Concept: Concrete Float

### 5. Acquisition Lesson

Plan for the Concept, Topic, or Skill -- Not for the Day

#### Lesson Essential Question:

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How are the procedures used to complete the concrete float project?

ANSWER: Refer to the Bill of Materials

What do students need to learn to be able to answer the Essential Question?

Assessment Prompt 1: List and explain the steps used to complete a concrete float project

#### Activating Strategy:

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KWL

Key vocabulary to preview:

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Wordsplash

#### Teaching Strategies:

Graphic Organizer:

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Cause and Effect

Instruction:

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**AP:** List and explain the steps used to complete a concrete float project

Constructing a project

Assignment and/or Assessment:

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Building a project

Extending Thinking Activity:

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Error Analysis

#### Summarizing Strategy:

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The Important Thing

Differentiation:

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Grade(s): 9th

Concept: Concrete Float

### 5. Acquisition Lesson

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Modification will be made when necessary for different levels of learning

Review / Revise:

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Completed Project

Resources and Materials:

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Bill of Materials

Time (in days):

---

10

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Concept: Bluebird Box

### 5. Acquisition Lesson

Plan for the Concept, Topic, or Skill -- Not for the Day

#### Lesson Essential Question:

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How are the procedures used to complete a bluebird box project?

ANSWER: Refer to the Bill of Materials

What do students need to learn to be able to answer the Essential Question?

Assessment Prompt 1: List and explain the steps used to complete a bluebird box project

#### Activating Strategy:

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KWL

Key vocabulary to preview:

---

Wordsplash

#### Teaching Strategies:

Graphic Organizer:

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Cause and Effect

Instruction:

---

Constructing a Project

**AP:** List and explain the steps used to complete a bluebird box project

Assignment and/or Assessment:

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Completed Projects

Extending Thinking Activity:

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Error Analysis

#### Summarizing Strategy:

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Reflection Questions

Differentiation:

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Concept: Bluebird Box

### 5. Acquisition Lesson

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Modification will be made when necessary for different levels of learning

Review / Revise:

---

Completed Projects

Resources and Materials:

---

Bill of Materials

Time (in days):

---

10

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8. Differentiating the Unit

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What accommodations will you make in order to meet the varied interest, learning styles, and ability levels of all students?

**Differentiation Associated with the Unit:**

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**Differentiation Associated with Lessons and Activities:**

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**Student Assessment 1: Work Ethic :**

Modification will be made when necessary for different levels of learning

**Student Assessment 2: Skill Development :**

Modification will be made when necessary for different levels of learning

**Student Assessment 3: Planned Projects :**

Modification will be made when necessary for different levels of learning

**Launch Activity 1: Describe the steps used in building a project :**

Modification will be made when necessary for different levels of learning

**Acquisition Lesson 1::**

How are the procedures used to complete the toolbox project?

**ANSWER: Refer to the Bill of Materials**

Modification will be made when necessary for different levels of learning

**Acquisition Lesson 2::**

How are the procedures used to complete the concrete float project?

**ANSWER: Refer to the Bill of Materials**

Modification will be made when necessary for different levels of learning

**Acquisition Lesson 3::**

How are the procedures used to complete a bluebird box project?

**ANSWER: Refer to the Bill of Materials**

Modification will be made when necessary for different levels of learning



Curriculum: CCSD CURRICULUM

Course: Agricultural Science I (11/18/13)

Teacher/Team Name: Brown/Turner

PENNSYLVANIA

Date: April 13, 2014 ET

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What resources and materials do you need for this unit, the lessons, and the activities?

Resources Associated with the Unit:

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Resources Associated with Lessons and Activities:

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