

**Paulsboro Schools**



# ***Curriculum***

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**R.C.I. Maintenance I - II**

**Grade: 9-12**

**2012 - 2013**

**\* For adoption by all regular education programs  
Board Approved: <Month Year>**

# **PAULSBORO SCHOOL DISTRICT**

## **Number Sense;**

- (4.1): ALL STUDENTS WILL GAIN A PRACTICAL EXPOSURE TO MATHEMATICAL THEORIES AS RELATED TO THE CONSTRUCTION TRADES.

## **Measuring;**

- (4.2): ALL STUDENTS WILL BE ABLE TO ACCURATELY USE MEASURING TOOLS TO PREPARE ASSIGNMENTS AS REQUIRED FOR ROUGH & FINAL PROJECT REQUIREMENTS.

## **Table & Graphs;**

- (4.3): ALL STUDENTS WILL BE ABLE TO ACCESS WOOD TRADE INFORMATION.

## **Probability Estimate;**

- (4.4): ALL STUDENTS WILL BE ABLE TO PROPERLY ESTIMATE PROJECT ASSIGNMENT.

## **Problem Solving;**

- (4.5): ALL STUDENTS WILL BE ABLE TO DEVELOP BASIC PROBLEM SOLVING SKILLS AS RELATED TO THEIR INDIVIDUAL OR GROUP PROJECT ASSIGNMENTS.

## **Computer & Information Literacy**

- (8.1): ALL STUDENTS WILL USE COMPUTER APPLICATIONS TO GATHER AND ORGANIZE INFORMATION AND SOLVE RELATED WOODWORKING PROBLEMS.

## **Career & Technical Education**

- (9.1): ALL STUDENTS WILL DEVELOP CAREER AWARENESS AND PLANNING, EMPLOYABILITY SKILLS, AND FOUNDATIONAL KNOWLEDGE NECESSARY FOR SUCCESS IN THE WORKFORCE.

## **Consumer, Family, and Life Skills**

- (9.2): ALL STUDENTS WILL DEMONSTRATE CRITICAL LIFE SKILLS IN ORDER TO BE FUNCTIONAL MEMBERS OF SOCIETY.

# PAULSBORO SCHOOL DISTRICT

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Dr. Frank Scambia

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# **Paulsboro Schools Mission Statement**

The mission of the Paulsboro School District is to provide each student educational opportunities to assist in attaining their full potential in a democratic society.

Our instructional programs will take place in a responsive, community based school system that fosters respect among all people.

Our expectation is that all students will achieve the New Jersey Core Curriculum Content Standards (NJCCCS) at every grade level.

## Scope and Sequence Map

| <b><u>Marking Period (1)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>R.C.I. Maintenance I-II</b><br><b><u>(Enter major concept here)</u></b><br><b>(Carpentry)</b><br><br>Students will learn all aspects of traditional framing from start to finish including sheetrock to spackle. Students will also review methods for cabinetry. Fixing scratches, refinishing, and repairs on furniture including antique furniture.                                                                                        |
| <b><u>Marking Period (2)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>R.C.I. Maintenance I-II.</b><br><b><u>(Enter major concept here)</u></b><br><b><u>(Electricity)</u></b><br><br>Students will be able to wire two-way and three-way lighting circuits, repair lamps, replace electrical cords, and will be introduced to electrical building code requirements. Identifying the appropriate locations for and installing GFCI outlets as well as replacing circuit breakers will be explored in modern houses. |

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| <p><b><u>Scope and Sequence Map</u></b></p> <p><b>R.C.I. Maintenance I-II<br/>(Plumbing)</b></p> <p>Students will be able to replace valves, cut pipe, sweat copper pipes, and be introduced to new plumbing technologies such as flexible water lines. Students will be able to install a vanity, sink, and faucet in a given area.</p>          |  |
|                                                                                                                                                                                                                                                                                                                                                   |  |
| <p><b>Marking Period (4)</b></p> <p><b>R.C.I Maintenance I-II<br/>(Misc. Home &amp; School Repairs)</b></p> <p>This hands-on class is designed to give students a working knowledge of how to make basic household and school repairs. Also the introduction to the translation of builders blueprints, understanding dimensions and scaling.</p> |  |

**Core Curriculum**  
**Marking Period (1)**

|                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Woods:I-II-III-IV</b><br><b>Grade: 9-12</b>                                                                                                                                                                                                                                                                                                                                                                              | <b>Suggested days of instruction</b><br><b>Mon. Tues. Wed. Thur. Fri.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Quarter 1</b><br><b>Objective/ Cluster</b><br><b>Concept/ Cumulative</b><br><b>Progress Indicators</b><br><small>Taken from CPI's in NJCCCS standards<br/> <a href="http://www.nj.gov/education/aps/cccs/">http://www.nj.gov/education/aps/cccs/</a></small><br><b>NJCCCS:</b><br><b>9.4.12.1.(4).2</b><br><br><b>9.4.12.1.(4).3</b><br><br><b>9.4.12.1.(4).4</b><br><br><b>9.4.12.1.(4).5</b><br><br><b>9.4.12.B.40</b> | <p style="text-align: center;"><b><u>MASTER GOAL FOR THE YEAR</u></b></p> <p>This hands-on class is designed to give students a working knowledge of how to make household repairs through the introduction of hand and power tools and techniques needed for basic home maintenance. The fundamentals of electricity, plumbing, carpentry, and appliance trouble-shooting and repairs will be explored. Also, students will review fundamental methods in repairing common household items such as furniture, cabinets, and framing. The understanding of blueprints and its importance relating to trouble-shooting problems buried within a wall structure will also be covered.</p> |

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| <b>9.4.12.B.41</b> | <b>Topic: (name of unit)</b><br><b>INTRODUCTION OF CARPENTRY &amp; BASIC FRAMING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>9.4.12.B.42</b> | <b>Goal I:</b><br><b>*</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>9.4.12.B.43</b> | <b>Students will be able to demonstrate proper safety procedures (power &amp; hand tools) (Written &amp; Hands-On)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>9.4.12.B.44</b> | <ul style="list-style-type: none"> <li>• Identify the steps in creating forms &amp; footings</li> <li>• Calculate square feet, cubic feet, and board feet.</li> <li>• Determine the price of material needed</li> <li>• Describe how a typical wall structure is built.</li> <li>• Demonstrate proper techniques installing sheet rock.</li> <li>• Repair sheet rock using spackle and tape.</li> <li>• Demonstrate cutting molding including corners &amp; miters.</li> <li>• Distinguish between oil and water base primer &amp; paints.</li> <li>• Demonstrate how to apply paint.</li> <li>• How to translate instructions.</li> <li>• Understanding dimensions &amp; scaling</li> <li>• Understanding basic framing</li> <li>• Understanding basic terminologies &amp; terms relating to construction.</li> <li>• Understanding all safety procedures.</li> </ul> |
| <b>9.4.12.B.45</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>9.4.12.B.46</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>9.4.12.B.47</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### **Assessment Criteria:**

- Written tests.
- Knowledge & Comprehension
- Hands-on demo.
- Following proper safety procedures.
- Project completion.
- Basic Math calculations.
- Problem solving.
- Clean-up procedures.

### **Learning Activities:**

- Hands-on activities (group & individual)
- Addressing basic safety rules & procedures.
- Planning projects.
- Using hand tools.
- Using portable tools.
- Using stationary tools.
- Translating directions & instruction.
- Basic tool adaption (blades, adjustments)
- Reading a ruler
- Basic framing

**Core Curriculum**  
**Marking Period (2)**

|                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Woods: I-II-III-IV</b><br><b>Grade: 9-12</b>                                                                                                                                                                                                                                                                                                                                                                        | <b>Suggested days of instruction</b><br><b>Mon. Tues. Wed. Thur. Fri.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Quarter 1</b><br><b>Objective/ Cluster</b><br><b>Concept/</b><br><b>Cumulative</b><br><b>Progress</b><br><b>Indicators</b><br><b>Taken from CPI's in NJCCCS</b><br><b>standards</b><br><a href="http://www.nj.gov/education/aps/cccs/">http://www.nj.gov/education/aps/cccs/</a><br><b>NJCCCS:</b><br><b>9.1.12.A.14</b><br><br><b>9.4.12.B(2).9-13</b><br><br><b>9.4.12.B.(3).2-6</b><br><br><b>9.4.12.B.30-34</b> | <b>Topic: (name of unit)</b><br><b>INTRODUCTION TO BASIC ELECTRICITY.</b><br><br><b>Overarching Goals:</b> (taken from Introduction, Philosophy and educational goals page, pg 4 )<br><br><b>Goal 1:</b><br><b>Students will be able to:</b> <ul style="list-style-type: none"> <li>• Understand the fundamentals of electrical current and safely work with electricity</li> <li>• Identify how an open and closed loop system works.</li> <li>• Be able to diagram a simple switch</li> <li>• Distinguish the difference between direct and alternating current</li> <li>• Identify parallel and series wiring</li> <li>• Identify the various electrical boxes and their use.</li> </ul> |

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| <p><b>9.4.12.B.74</b></p> <p><b>9.4.12.B.(2).6</b></p> <p><b>9.4.12.B.(2).69</b></p> <p><b>9.4.112.B.(93).2</b></p> <p><b>9.4.12.B.(3).1</b></p> <p><b>9.4.12B.26</b></p> <p><b>9.4.12.B.40</b></p> <p><b>9.4.12.B.72-74</b></p> <p><b>9.4.12.B.(1).10</b></p> <p><b>9.4.12.B.(3).</b></p> | <ul style="list-style-type: none"> <li>• <b>Basic lamp wiring &amp; repair.</b></li> </ul> <p><b><u>Goal II:</u></b></p> <p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• <b>Identify the various types of wires and their appropriate application for different breakers</b></li> <li>• <b>Understand the current codes and procedures for wiring a house from circuit breaker to light switch.</b></li> <li>• <b>Be able to wire a GFCI switch</b></li> <li>• <b>Calculate the amount of amps on a given breaker and determine the maximum amount that can be added.</b></li> <li>• <b>Identify government and private organizations that set the standards for a safe working environment. Basic safety applications and rules in both the work environment and the school shop.</b></li> <li>• <b>Why are following safety precautions in the classroom and operating machinery so necessary?</b></li> <li>• <b>What are the fundamental principles of electrical wiring in a residential house and what are the current safety codes.</b></li> </ul> |
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|  | <b><u>ASSESSMENT CRITERIA:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b><u>LEARNING ACTIVITIES:</u></b>                                                                                                                                                                                |
|  | <ul style="list-style-type: none"><li>• Understand the fundamentals of electrical current.</li><li>• Identify how an open and closed system works.</li><li>• Be able to diagram a simple switch.</li><li>• Be able to distinguish between a direct current and alternating current</li><li>• Demonstrate how to wire a GFCI switch.</li><li>• Understand the current electrical codes.</li><li>• Proper safety procedures in electrical operations.</li><li>• Group participation.</li></ul> | <ul style="list-style-type: none"><li>• Hands-on activities (Individual &amp; group)</li><li>• Demonstrations.</li><li>• Hand-outs.</li><li>• Videos.</li><li>• Materials.</li><li>• Math related info.</li></ul> |

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|                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | <p><b><u>Core Curriculum:</u></b><br/><b>Marking Period (3)</b></p> |
| <p><b>R.C.I. Maintenance</b><br/><b>Grade: 9-12</b></p>                                                                                                                                                                                                                              | <p><b>Suggested days of instruction</b><br/><b>Mon. Tues. Wed. thru. Fri.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |                                                                     |
| <p><b>Quarter 1</b><br/><b>Objective/ Cluster</b><br/><b>Concept/</b><br/><b>Cumulative</b><br/><b>Progress</b><br/><b>Indicators</b><br/>Taken from CPI's in NJCCCS<br/>standards<br/><a href="http://www.nj.gov/education/aps/cccs/">http://www.nj.gov/education/aps/cccs/</a></p> | <p><b>Topic: (name of unit)</b><br/><b>INTRODUCTION TO BASIC PLUMBING</b></p> <p><b>Overarching Goals:</b> (taken from Introduction, Philosophy and educational goals page, pg 4 )</p> <p><b>Goal 1:</b> (what the student will be able to do at the end of the unit)</p> <p><b>Students will be able to:</b></p> <ul style="list-style-type: none"> <li>• Identify how a closed and open loop plumbing system works.</li> <li>• Identify old and new materials used for plumbing in a house works.</li> <li>• Calculate volume and flow rate.</li> <li>• Describe new technologies being used in connecting water lines together.</li> <li>• Demonstrate the safety precautions while working with plumbing tools.</li> </ul> |  |  |  |                                                                     |
| <p><b>NJCCCS:</b><br/><b>9.2.12.F.1</b></p> <p><b>9.2.12.F.2</b></p> <p><b>9.2.12.F.3</b></p> <p><b>9.2.12.F.4</b></p>                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |                                                                     |

| <p><b>9.2.12.F.5</b></p> <p><b>8.2.12.A.3</b></p> <p><b>9.1.12.B.6</b></p> <p><b>9.2.12.B.6</b></p> <p><b>9.2.12.A.1</b></p> <p><b>9.2.12.D.5</b></p> <p><b>9.1.12.B.9</b></p>                         | <ul style="list-style-type: none"> <li>• Identify PVC piping and the application for joining the materials together.</li> <li>• Demonstrate the procedures in installing a sink, faucet, and valves in a given cabinet.</li> <li>• Identify the various drainage systems used in today's homes.</li> <li>• Various unclogging procedures and techniques.</li> </ul> <p><b><u>GOAL II:</u></b></p> <p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Identify the materials needed to solder copper pipes together.</li> <li>• Explain the procedures in preparing copper pipes for soldering.</li> <li>• Demonstrate how to solder copper joints without developing a leak.</li> </ul> |                                   |                                    |                                                                                                                                                                                                        |                                                                                                                                                                                                                    |
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|                                                                                                                                                                                                        | <table> <tr> <th><b><u>Assessment Criteria</u></b></th><th><b><u>Learning Activities:</u></b></th></tr> <tr> <td> <ul style="list-style-type: none"> <li>• Tests &amp; Quizzes</li> <li>• Lab work</li> <li>• Group project-based activities.</li> <li>• Individual lab work.</li> <li>• Group participation.</li> </ul> </td><td> <ul style="list-style-type: none"> <li>• Hands-on activities. (group &amp; individual)</li> <li>• Demonstrations.</li> <li>• Hand-outs &amp; materials</li> <li>• Videos.</li> <li>• Math related info.</li> </ul> </td></tr> </table>                                                                                                                                      | <b><u>Assessment Criteria</u></b> | <b><u>Learning Activities:</u></b> | <ul style="list-style-type: none"> <li>• Tests &amp; Quizzes</li> <li>• Lab work</li> <li>• Group project-based activities.</li> <li>• Individual lab work.</li> <li>• Group participation.</li> </ul> | <ul style="list-style-type: none"> <li>• Hands-on activities. (group &amp; individual)</li> <li>• Demonstrations.</li> <li>• Hand-outs &amp; materials</li> <li>• Videos.</li> <li>• Math related info.</li> </ul> |
| <b><u>Assessment Criteria</u></b>                                                                                                                                                                      | <b><u>Learning Activities:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                                    |                                                                                                                                                                                                        |                                                                                                                                                                                                                    |
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**Core Curriculum:**  
**Marking Period (4)**

**Woods; I-II-III-IV**  
**Grade: 9-12**

**Quarter 1**

**Objective/ Cluster**  
**Concept/**  
**Cumulative**

**Progress**

**Indicators**

Taken from CPI's in NJCCCS

**Suggested days of instruction**  
**Mon. Tues. Wed. Thur. Fri.**

**Topic: (name of unit)**

**INTRODUCTION TO BASIC HOME & SCHOOL REPAIRS & TRANSLATION OF BUILDERS BLUEPRINTS**

**Overarching Goals:** (taken from Introduction, Philosophy and educational goals page, pg 4 )

## NJCCCS:

### 9.4.12.B.(3).1-6

#### 8.1.P.A.1

#### 8.1.P.A.5

#### 8.1.2.A.2

#### 8.1.2.A.4

#### 8.1.4.A.5

#### 8.1.P.B.1

#### 8.1.P.E.1

#### 8.1.\$.E.1

#### 8.2.2.A.1

#### 8.2.2.B.1

**Goal 1:** (what the student will be able to do at the end of the unit)

**Students will be able to:**

- Make misc. basic home repairs.
- Basic furniture repair & refinishing.
- Picture framing.
- Various school repairs.
- Construction of basic pieces of home furniture.
- Window & glass repair.
- Basic roofing repair.

### GOAL II:

**Students will be able to:**

- Translating blueprints & drawings.
- Understand dimensions & scaling.
- Understand glossary terms.
- Determine material costs for a given set of plans.

### Assessment Criteria:

- Tests & quizzes.
- Individual class projects.
- Job estimates
- Proper safety procedures.
- Group participation.

### Learning Activities:

- Hands-on activities (group & individual)
- Demos
- Videos.
- Related materials.

**8.2.2.B.2**

**8.2.4.B.2**

**8.2.12.A.1**

**8.2.2.C.1**

**8.2.4.C.1**

**Students will be able to:**

- 1. Work safely and efficiently in a shop environment with hand and power tools.**
- 2. Apply background info about the nature of the project.**
- 3. Use tools and machines for layout work and prototyping to complete the design challenge.**
- 4. Construct a project out of wood and other materials that will display the techniques learned and practiced.**
- 5. Apply info learned about problem solving and tool usage to design and construct school and personal projects.**
- 6. Basic electrical procedures.**
- 7. Basic plumbing procedures.**

