

**LESSON NAME**

Course Name	Grade Level	Subject Represented
Construction	10-12	Masonry Unit

**GOALS:**

Students will explore foundations types and materials to see how they are calculated, constructed, and utilized.

**OBJECTIVES:**

Given a demonstration, tools, concrete mix, and concrete forms the Construction students will be able to calculate material needed and pour a concrete slab with 90% efficiency.

**PRIORITY STANDARDS:**

- Demonstrate ability to identify and safely use hand tools commonly used by tradesmen and tradeswomen.
- Identify types and uses of exterior building materials.

**TIME FRAME:**

5 days

**MATERIALS:**

- Concrete forms
- Concrete finishing tools
- 60lb bag mix concrete
- Wheelbarrows
- Calculators

**PROCEDURE:**

Day 1: Foundations PowerPoint and Follow Along Worksheet  
Day 2: Concrete Estimation Demo and Calculation Worksheet  
Day 3: Build Concrete Forms and Prep for Concrete Pour  
Day 4: Mix, Pour, and Finish Concrete  
Day 5: Remove forms and assess concrete finishing

**ASSESSMENT:**

- Concrete Estimation worksheet
- Concrete slab project