

Northwestern School Corporation
Technology Education Curriculum
Course Outline

Construction Processes

- A. Introduction to Construction Technology
 - 1. The lab, tools, and materials
 - 2. Types of Construction
 - 3. Buildings and civil structures
 - 4. Designing, producing, using, assessing
 - 5. Problem solving in construction
 - 6. Careers in Construction Technology
- B. Laboratory and Tool Safety
 - 1. Safety Video
 - 2. Safety demonstrations
 - 3. Safety lectures
 - 4. Safety tests
 - 5. Safety Contracts
- C. Lab and Tool Maintenance
 - 1. Tool Organization
 - 2. Tool repair
 - 3. Tool Checklists
- D. Designing Structures
 - 1. Designing construction projects
 - a. Working Drawings
 - b. Cross section drawing
 - 2. Building Codes
- E. Buildings Construction
 - 1. Initiating the project
 - 2. Site work

3. Building the structure
 - a. Wall Section Activity
 - i. Floor framing
 - ii. Wall framing
 - iii. Roof framing
 4. Installing systems
 5. Enclosing and finishing
- F. Constructing Civil Structures
 1. Initiating the project
 2. Site work
 3. Building the Structure
 - a. Civil Structure Activity
 4. Enclosing and finishing
 5. Construction techniques
- G. Repairing Constructed Structures
 1. Selecting a structure
 2. Repairing and maintaining structures
 - a. Repairing a structure activity
- H. Community Planning
 1. Assessing communities
 2. What is a community?
 - a. Community Planning Activity
- I. Final Exam Review