SCHOENBAR MIDDLE SCHOOL COURSE GUIDE
GRADE 7

COURSE TITLE: INDUSTRIAL TECHNOLOGY, WOODS AND TRANSPORTATION *DATE ADOPTED: Revision 06-07*

DEPARTMENT VOCATIONAL **COURSE LENGTH** 9 WEEKS

Course Description:

This course is designed as an introductory course in woodworking. The course will cover safe operation of equipment, basics of developing and drawing plans, correct use of tools, various types of assembly procedures, use of various finish materials and a general understanding of the lumber industry.

Course Outcomes/Standards:

1. Students will be able to use tools, materials, and equipment in a proper, safe, and considerate manner.

AK Performance: Math Writing Reading
AK Technology:
Industry-based Standards:
AK Cultural Standards:
Voc/Tech Standards

The student will:

1.1 State and apply industrial safety standards, including proper/safe attire.
1.2 Identify and understand tools, including proper adjustment, and be able to use for their purpose in a proper manner.
1.3 Work cooperatively and share tools with other students.
1.4 Be able to identify kinds of lumber, plywood, and composite materials.
1.5 Know and identify all safety procedures for handling materials.
1.6 Maintain a work area and return everything to its proper place.

2. The student will be able to read and make a plan of materials, drawings, and patterns.

AK Performance: Math Writing Reading
AK Technology:

Industry-based Standards:
AK Cultural Standards:
Voc/Tech Standards

The student will:

2.1 Prepare and interpret working plans.
2.2 Read and interpret specifications.
2.3 Apply key factors affecting decisions (time, space, skills, materials).
2.4 Make accurate computations (area, volume, and estimate materials, time, and cost).
2.5 Develop simple sketches and plans.
2.6 Develop and compute a bill of materials.

3. Students will be able to use safe and proper procedures and methods in assembling projects:

AK Performance: Math Writing Reading
AK Technology:
Industry-based Standards:
AK Cultural Standards:
Voc/Tech Standards:

The student will:

3.1 Identify and use appropriate materials to complete jobs properly and safely.
3.2 State and be able to apply assembly methods.
3.3 Be able to develop and follow a plan of procedure.
3.4 State and be able to execute basic joints.

4. The student will be able to determine and follow a correct sequence of operations.

AK Performance: Math Writing Reading
AK Technology:
Industry-based Standards:
AK Cultural Standards:
Voc/Tech Standards:

The student will:

4.1 Determine and follow a correct sequence of operations.
4.2 Demonstrate conservation of materials.
4.3 Be able to use proper techniques.

5. The student will be able to use finishing materials and tools to complete projects.

AK Performance: Math Writing Reading
AK Technology:
Industry-based Standards:
AK Cultural Standards:
Voc/Tech Standards:

The student will:

5.1 Select the proper finish for durability, safety, compatibility, and aesthetics.
5.2 Properly apply a variety of different finishes.
5.3 Observe and apply all safety and cleanup procedures.

6. Students will possess a general knowledge of the lumber industry.

AK Performance: Math Writing Reading
AK Technology:
Industry-based Standards:
AK Cultural Standards:
Voc/Tech Standards:

The student will:

6.1 State current related careers (benefits, responsibilities, requirements, life style).
6.2 Be able to research current job market information.
6.3 Be able to explain own interest in various technical careers.

Desired Outcomes:
- The student should gain an understanding of working safely in lab environment.
- They should gain a knowledge of the work environment that should carry over into the real world.
- They should gain knowledge of safe working conditions when working with tools.

Major Activities:
- Students will observe and participate in many safety and tool demonstrations.
- Students will complete from 2-6 projects using hand and power tools.

Assessment:

- Will be assessed upon completion of a series of safety test.
- They must complete these test with 80% efficiency in order to operate the power tools.
- They will also be graded on completion of project work and participation.