

Applied Technology

6th Grade Curriculum

Time Frame: 9 Weeks = 45-Day Rotation

Evaluation Methods : Observations, Discussions, Tests, Homework, Drawings, and Projects.

The 6th grade industrial arts students are responsible for achieving the following objectives:

- Estimation of measurements
- Measuring using the English system to the nearest 16th inch
- Architectural-Style Lettering
- Drafting Tools & Terminology
- Orthographic Projections
- Isometric Projections
- Architecture Floor Plans
- Safe Shop Practices
- Wood Types & Terminology
- Basic Woodworking Hand Tools
- Basic Sanding & Finishing Techniques
- 7th Grade Curriculum
- Time Frame : 9-Weeks = 45-Day Rotation
- Evaluation Methods : Observations, Discussions, Tests, Homework, Drawings, and Projects.

The 7th grade industrial arts students are responsible for achieving the following objectives:

- Estimation of measurements
- Measuring - English system to the nearest 16th inch
- Scaling - Using the 1/4" scale Architectural-Style Lettering
- Drafting Tools & Terminology
- Orthographic Projections
- Isometric Projections
- CAD (Computer Aided Design) - Architecture Floor Plans
- Safe Shop Practices
- Wood Types & Terminology
- Basic Woodworking Hand Tools
- Basic Sanding & Finishing Techniques
- Band Saw - cut external curves
- Drill Press - bore vertical holes to determined depth

- **Disc Sander - shape edges**
- **Hand Power Drill**
- **Silk screening**
- **Radio Communications Lab**

8th Grade Curriculum

Time Frame: 18-Weeks = 90-Day Rotation

Evaluation Methods: Observations, Discussions, Tests, Homework, Drawings, and Projects.

The 8th grade industrial arts students are responsible for the following objectives as time permits:

- **Estimation of measurements**
- **Measuring - English system to the nearest 16th inch**
- **Scaling - Using the 1/4" scale**
- **Architectural-Style Lettering**
- **Drafting Tools & Terminology**
- **Orthographic Projections**
- **Isometric Projections**
- **Perspective Drawings**
- **CAD (Computer Aided Design) - Architecture Floor Plans**
- **Safe Shop Practices**
- **Wood Types & Terminology**
- **Basic Woodworking Hand Tools**
- **Basic Sanding & Finishing Techniques**
- **Woodworking Power Tools: Band Saw, Jig Saw, Drill Press, Disc Sander, Hand Power Tools, Radial Arm Saw, Jointer, Table Saw, Dado Head Table Saw, and Lathe**
- **Assembly & Clamping Procedures**
- **Assembly Line/Mass Production Techniques**
- **Basic Structural Engineering**
- **Simple Machines**
- **Basic Metals/Sheetmetal: Tooling, Squaring Shear, Notcher, Finger Brake, Roller, Bender, Solder, Riveting, Grinding, Spot Welding**
- **Basic Electricity & Wiring**
- **Basic Automotives & Engines**
- **Power Mechanics**
- **Laws of Physics**