

**Wilson Area School District
Planned Course Guide**

Title of planned course: Technology Education – Grade 7

Subject Area: Technology Education Grade Level: 7th

Course Description: Students will be introduced to a limited amount of power tools. Three of the thirty-day cycle will be used to review and master standard measurement to the nearest sixteenth of an inch. A safety quiz for each machine is required to be taken by every student prior to use following lecture and demonstration by the instructor. Projects will be built using wood, plastic, and glass.

Time/Credit for this Course: 30 days

Curriculum Writing Committee: George M. Banas

**Wilson Area School District
Planned Course Materials**

Course Title: Technology Education

Textbook: None (title)
_____ (publisher)
_____ (copyright date)
_____ (web address)

Supplemental Books: WOOD magazine, This Old House magazine, Popular Woodworking magazine, and Wood Workers Journal

Teacher Resources: Magazines, Internet sites, and other school districts

Curriculum Map

- Week 1: - Safety (2 days)
 - Measurement (3 days)
- Week 2: - Bank Project
- Week 3: - Bank Project
- Week 4: - Bank Project (2 days)
 - Paper Plate or Napkin Holder (3 days)
- Week 5: - Paper Plate or Napkin Holder
- Week 6: - Paper Plate or Napkin Holder (2 days)
 - Glass Jar Project (3 days)

Scope & Sequence

Planned Course: Technology Education

Unit: Safety

Time frame: 2 days

State Standards: 3.7.7.A

Anchor(s) or adopted anchor:

Essential content/objectives: Describe and demonstrate appropriate use of tools, materials, and procedures needed in the shop setting.

Core Activities: Students will complete/participate in the following:

1. Lecture
2. Demonstrate
3. Quiz
4. Application

Extensions: N/A

Remediation: Teacher assistance

Instructional Methods:

1. Lecture
2. Demonstrate
3. Guided practice
4. Independent practice

Materials & Resources:

1. Class roster
2. Seating chart
3. Permission slip
4. Job assignment/board
5. Posters
6. Worksheets
7. Quiz
8. Project Bins

Assessments:

1. Worksheet
2. Poster
3. Quiz
4. Observation

Scope & Sequence

Planned Course: Technology Education

Unit: Measurement

Time frame: 3 days

State Standards: 3.7.7.B

Anchor(s) or adopted anchor:

Essential content/objectives: Select and use appropriate instruments to measure objects in standard form to the nearest sixteenth of an inch.

Core Activities: Students will complete/participate in the following:

1. Lecture
2. Demonstrate
3. Worksheets
4. Quiz
5. Application

Extensions:

Remediation: Teacher assistance, extra worksheets

Instructional Methods:

1. Lecture
2. Demonstrate
3. Guided practice
4. Independent practice

Materials & Resources:

1. Large ruler board
2. Ruler
3. Worksheets
4. Quiz
5. Tape measure

Assessments:

1. Worksheets
2. Quiz
3. Oral questioning
4. Observation
5. Projects

Scope & Sequence

Planned Course: Technology Education

Unit: Bank Project

Time frame: 12 days

State Standards 3.6.7.B
3.7.7.A

Anchor(s) or adopted anchor:

Essential content/objectives: Create a design template and materials list for a project. S.W.B.A.T. use correct tools safely to complete the project at hand.

Core Activities: Students will complete/participate in the following:

1. Design
2. Measure
3. Trace
4. Cut
5. File
6. Sand
7. Drill
8. Buff
9. Screw
10. Glue

Extensions: - Design their own bank shape

Remediation: Teacher assistance in whatever step of the process that is needed.

Instructional Methods:

1. Lecture
2. Demonstrate
3. Guided Practice
4. Independent Practice

Materials & Resources:

- | | | | |
|-------------------------------|--------------------------|--------------------|-----------------|
| 1. Oak tag | 5. Files | 9. Wood buttons | 13. Glue |
| 2. Scissors | 6. Sand paper | 10. Plastic | 14. Screwdriver |
| 3. Stock | 7. Drill | 11. Buffing wheels | |
| 4. Scroll saw
(coping saw) | 8. Oscillating
sander | 12. Screws | |

Assessments:

1. Materials worksheet
2. Template
3. Observation
4. Project

Scope & Sequence

Planned Course: Technology Education

Unit: Paper Plate or Napkin Holder

Time frame: 10 days

State Standards 3.6.7.B
3.7.7.A

Anchor(s) or adopted anchor:

Essential content/objectives: At end of the unit, students will be able to:
Design their own project and see it through from start to finish. S.W.B.A.T.
calculate materials needed, templates, and use correct tools safely to
complete their project.

Core Activities: Students will complete/participate in the following:

1. Design
2. Measure
3. Cut
4. File
5. Sand
6. Drill
7. Stamp
8. Glue
9. Stain

Extensions:

Remediation: Teacher assistance

Instructional Methods:

1. Lecture
2. Demonstrate
3. Guided Practice
4. Independent Practice

Materials & Resources:

1. Materials worksheet
2. Oak tag (scissors)
3. Stock
4. Scroll saw (coping saw)
5. Files
6. Sand Paper
7. Drill
8. Dowels
9. Back saw
10. Rule
11. Dowel board
12. Metal stamps
13. Glue
14. Stain (brush)

Assessments:

1. Materials sheet
2. Template
3. Observation
4. Project

Scope & Sequence

Planned Course: Technology Education

Unit: Glass Jar Project

Time frame: 3 Days

State Standards 3.7.7.A

Anchor(s) or adopted anchor:

Essential content/objectives: At end of the unit, students will be able to:
Work with a new media (glass) to make a unique and interesting project.
S.W.B.A.T. draw, cut, and media blast a glass jar safely.

Core Activities: Students will complete/participate in the following:

1. Tape
2. Design
3. Cut
4. Media blast
5. Clean

Extensions:

Remediation: Teacher Assistance

Instructional Methods:

1. Lecture
2. Demonstrate
3. Guided Practice
4. Independent Practice

Materials & Resources:

1. Glass jar
2. Tape
3. Exacto knife
4. Media blaster

Assessments:

1. Observation
2. Project