

## TECHNOLOGY EDUCATION DEPARTMENT

Name \_\_\_\_\_ Date Started \_\_\_\_\_

Time Allowed \_\_\_\_\_ Date Completed \_\_\_\_\_

COURSE TITLE: Materials and Processes

CONTENT AREA: Manufacturing/Mass Production

ACTIVITY TITLE: Research & Development - Clear Finishes, Methods of Application

ACTIVITY OBJECTIVES: UPON COMPLETION THE STUDENT WILL BE ABLE TO:

1. Know the advantages and disadvantages of various types of wood finishing materials.
2. Recommend a finishing material based upon the above for the manufactured product.
3. Know the advantages and disadvantages of the various methods of application.
4. Recommend a method of application based on the above for the manufacturing product.

ACTIVITY DESCRIPTION:

Students will, in groups of 2, research various finishing products, methods of application and come up with recommendations based upon their research.

EVALUATION CRITERIA:

1. Completion within time limit.
2. Completion of worksheets.

RESOURCES AND REFERENCES:

1. Finishing Technology, by George A. Soderberg  
Chapters 6, 10, 14, 15, 21
2. Product labels.
3. Hardware store, lumber yard, paint store.
4. Product pamphlets.



Researchers Names: 1. \_\_\_\_\_  
2. \_\_\_\_\_

WORKSHEET FOR R & D - CLEAR FINISHES (PROJECT)

| <u>PRODUCT NAME</u>              | <u>ADVANTAGES</u>  | <u>DISADVANTAGES</u>                                     |
|----------------------------------|--|--|
| Product #1 _____<br>and<br>Brand | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ |
| Product #2 _____<br>and<br>Brand | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ |
| Product #3 _____<br>and<br>Brand | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ |
| Product #4 _____<br>and<br>Brand | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ |
| Product #5 _____<br>and<br>Brand | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ |

RECOMMENDATION \_\_\_\_\_

Researchers Names: 1. \_\_\_\_\_,

2. \_\_\_\_\_

WORKSHEET FOR R & D - CLEAR FINISHES (METHODS OF APPLICATION)

APPLICATION METHOD

ADVANTAGES

DISADVANTAGES

Method #1 \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Method #2 \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Method #3 \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Method #4 \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

RECOMMENDATION \_\_\_\_\_