

### COURSE GUIDELINES

Course Title: Exploring Manufacturing (Ind. Arts)

Grade Level(s)	Length Day	Min. Period
7	45	85

Course Description:

Exploring Manufacturing is designed for a first course in manufacturing. The text describes the types of materials from which manufactured products are made, and explains management activities and responsibilities in the manufacturing industry.

- Detailed explanation of the secondary manufacturing processes of casting and molding, forming, separating, conditioning, assembling, and finishing.
- Topics include designing and engineering products, developing production systems, marketing products, performing financial activities, career opportunities, and more.

Relationship to 53 Student Learning Outcomes:

<u>Communications</u> C1,2,3,4,5,6,7	<u>Citizen</u> C3, C6, 7,8	<u>Environment &amp; Ecology</u> E/E 2,4
<u>Math</u> M1,2,3,4,5,6	<u>Wellness &amp; Fitness</u> 1,4,6	<u>Career Education</u> CE & W 1,2,3
<u>Science &amp; Technology</u> S.T. 1,3,4,5,6,7,8		

Course content by units and estimated time per unit:

Partial Contents:

- |   |                                    |
|---|------------------------------------|
| Introduction to Manufacturing           | Designing and Engineering Products |
| Engineering Materials                   | Developing Manufacturing Systems   |
| Primary Manufacturing Processes         | Manufacturing the Product          |
| Secondary Manufacturing Enterprise      | Marketing the Product              |
| Establishing a Manufacturing enterprise | Performing Financial Activities    |

Instructional Materials:

Exploring Manufacturing R. Thomas Wright  
Goodheart-Wilcox, 1993

APPROVE  
6-12-96 Board Meeting

**Procedures for Evaluation and Grade Determination:**

- Activity Evaluations - Level of Performance
- Objective Test
- Participation

completed 5/12/96