

Manufacturing Technologies

Preface

THIS IS A NINE-WEEK UNIT OF STUDY to explore the area of manufacturing technologies. You will examine how a solution for one problem can spinoff for uses in other contexts and applications. You will also understand that design involves tradeoffs and constraints, and that technological design involves a systematic process to solve problems. In addition, you will learn how to utilize a variety of simple and complex technologies.

Key Concepts

- Technological Spinoffs
- Design Constraints
- Technological Design
- Technology Utilization

Learning Unit Goal

The Learning Unit Goal provides a target for the *Manufacturing Technologies* Learning Unit. As students complete this unit, they will be able to:

Utilize appropriate design principles while developing an automated manufacturing machine.

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