

# STRANDS

## **Design Engineering** Thomas Jefferson High School

- I. Measuring
  - 1. Customary System
  - 2. Metric System
  - 3. Using a Ruler
  - 4. Using a Micrometer
  
- II. Software
  - 1. Identify Various CAD Software and their Applications
  - 2. Use Various CAD Software to Manipulate Drawings
  
- III. Architectural Design
  - 1. Identify a Design Problem
  - 2. Develop a Solution using CAD
  - 3. Produce a Working Model
  - 4. Evaluate the Results
  - 5. Present the Final Product
  
- IV. Mechanical Design
  - 1. Identify a Design Problem
  - 2. Develop a Solution using CAD
  - 3. Produce a Working Model
  - 4. Evaluate the Results
  - 5. Present the Final Product
  
- V. Research and Development
  - 1. Independent Research and Development of a New Trend in Engineering
  - 2. Develop Model