

STRANDS

Pre-Engineering Principles

Thomas Jefferson High School

- I. Measuring
 - 1. Customary System
 - 2. Metric System
 - 3. Using a Ruler
 - 4. Using a Micrometer

- II. Architecture
 - 1. History
 - 2. Types of Architecture
 - 3. Room and Space Layout
 - 4. Floor Plan Development
 - 5. Plot Plan Development
 - 6. Wall Sections
 - 7. Building Sections
 - 8. Electrical Plan
 - 9. Elevation Drawings
 - 10. Scales
 - 11. Plot
 - 12. Careers

- III. Mechanical Engineering
 - 1. Solid Models
 - 2. Use in Industry
 - 3. Part Development
 - 4. Application
 - 5. Design and Development

IV. Research and Development

1. Independent Research and Development of a New Trend in Engineering
2. Develop Model