

Directions:

The following topics will be on the unit 2 test. Use this study guide to help you prepare.

Engineering Design Process (EDP)

1. Definition of engineering design and what it includes.
2. What “awesome” engineers do.
3. Description and characteristics of the EDP
4. Eight steps of the EDP and how they relate (reiteration/overlapping)
5. Detailed description of each step in the EDP, including (but not limited to):
 - a. Characteristics of needs/wants
 - b. Criteria and constraints
 - c. Process for coming up with solutions and selecting the best one(s)
 - d. Prototyping and similar alternatives
 - e. Testing process, test plans, consequences
 - f. Purpose and description of final product and engineering notebook

Engineering Design Notebook

6. Definition – what it is
7. Purposes
8. Formats
9. Guidelines for the following sections:
 - a. Initial pages
 - b. Section entries
 - c. Errors
 - d. Data and drawings
 - e. Adding extras
 - f. Wrapping it up
 - g. Summary