

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Hr. \_\_\_\_\_

## **Intro to Engineering & Design EOC Study Guide**

### **Unit 1 – Design Process – 19%**

1. How might we create the best possible solution to a problem?  
Engineers try to think “outside the box” in order to solve new problems or find ways to improve current solutions.
2. What is the most effective way to generate potential solutions to a problem? How many alternate solutions should you generate?  
Brainstorming with a group, research and testing possible solutions
3. What is an engineer? What types of work do engineers do? Engineering is the application of mathematics and scientific principles to better or improve life. An engineer is a person who is trained in and uses technological and scientific knowledge to solve practical problems. Research, Develop, Design, Supervise, Manage, Production and Construction, Operations, Plant management, and Sales.
4. Why Keep an Engineering Notebook? An engineering notebook is recognized as a legal document that is used in patent activities to...
  - a. Prove the origin of an idea that led to a solution
  - b. Prove when events or ideas occurred
  - c. Prove diligence in turning the idea into a solution
  - d. Prove when an idea became a working solution (“reduced to practice”)
5. What are the 4 best Practices for the Engineering Notebook?
  - a. Be Neat,
  - b. be Accurate,
  - c. be Legible,
  - d. be Thorough.
6. Explain the concept of proportion. Paying close attention to the underlying basic shapes and the relative proportions of various features of the object will allow you to more accurately reflect the true shapes and proportions of the object in your sketch.

# Intro To Engineering Design Eoc Study Guide

**David Baud**



## **Intro To Engineering Design Eoc Study Guide:**

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