



Curriculum Pre/Post Test Unit 1

1. Which of the following is not a definition of Design?
 - A. To conceive of fashion in the mind
 - B. To formulate a plan for; devise
 - C. To duplicate an existing idea
 - D. To plan out in a systematic, usually graphic form

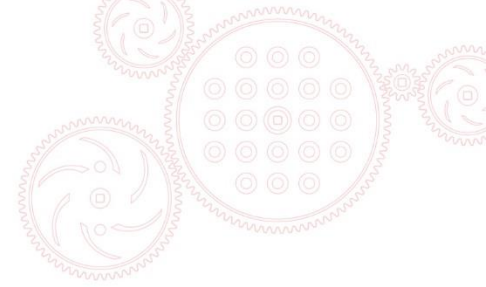
2. Engineering at its fundamental level is:
 - A. Math
 - B. Problem solving
 - C. Science
 - D. Art

3. Process Engineers:
 - A. Determine the best way to make a product and to ensure it is built correctly.
 - B. Create plastic types for use in a product.
 - C. Design the mechanical aspects of a product.
 - D. Design the electrical aspects of a product.

4. What type of engineer is responsible for designing and integrating the sensors and software of a product?
 - A. Mechanical Engineer
 - B. Plastics Engineer
 - C. Electrical Engineer
 - D. Aeronautical Engineer

5. Which of the follow actions would not fit in a successful design team?
 - A. Keep an open mind.
 - B. Do not become overly attached to a single idea.
 - C. Do not get offended if a conflict arises.
 - D. Be defensive of ideas.

6. Quantitative Arguments are _____.
 - A. Ones that can be measured
 - B. Ones that cannot measured
 - C. Ones that have a variable quantity
 - D. Ones that have an unknown quantity



7. Which of the following is not a part of the simple 3 step design process loop?
 - A. Implement
 - B. Test
 - C. Ideate
 - D. Design

8. Which step of the design process does includes doing background research on the problem be solved?
 - A. Understand
 - B. Explore
 - C. Define
 - D. Ideate

9. Which of the following is not a rule for brainstorming?
 - A. Focus on the quantity of the ideas generated
 - B. Focus on the quality of the ideas generated
 - C. Reserve judgment
 - D. Record all ideas

10. The process of repeating the design process over and over again is known as:
 - A. Refining
 - B. Repetition
 - C. Ideate
 - D. Iteration

11. An Engineering Notebook is:
 - A. A record of the design process.
 - B. A loose leaf binder with engineering notes and calculations.
 - C. An electronic document detailing the design process.
 - D. A collection of records, loose leaf binders and electronic documents of the design process.