

Design Process Quiz Answer Key

1) What type of problems can a Design Process help solve?

Select one:

- a) Only large-scale problems
- b) Only small-scale problems
- c) Engineering challenge problems
- d) All types and sizes of problems

2) Which of the following is the first step of the Design Process?

Select one:

- a) Define the Problem
- b) Define the Criteria
- c) Develop Ideas
- d) Develop Solutions

3) What is the definition of "criteria" as used in the Design Process?

Select one:

- a) Redesigning
- b) Prototype
- c) Brainstorming
- d) Specific solution requirements

4) Which could be an example of a "constraint" for a specific problem?

Select one:

- a) Brainstorming
- b) Being limited to using 1 foot of tape
- c) Redesigning
- d) Analyzing Data

5) What are three ways to Develop Ideas in the Design Process?

Select one:

- a) Design, Evaluate, Redesign
- b) Present, Produce, Evaluate
- c) Brainstorm, Research, Collaborate
- d) Test, Evaluate, Present

6) In which Design Process step might you draw a sketch with labels and measurements?

Select one:

- a) Define the Problem
- b) Define the Criteria
- c) Develop Solutions
- d) Test and Evaluate

7) What question(s) should you ask when Testing & Evaluating?

Select one:

- a) What is working well?
- b) What is not working well?
- c) What else can I try?
- d) All of the above

8) If not satisfied with a solution after Testing & Evaluating, which step in the Design Process should you return to?

Select one:

- a) Define the Problem
- b) Define the Criteria
- c) Develop Ideas
- d) Present & Produce

9) How many times should you cycle through Steps 3-5 of the Design Process?

Select one:

- a) As many as needed
- b) Once
- c) Three times or less
- d) As few as possible

10) Which of the following is the last step of the Design Process?

Select one:

- a) Define the Problem
- b) Define the Criteria
- c) Develop Ideas
- d) Present & Produce