

Chemistry of Life

Bell work – Student Edition

MULTIPLE CHOICE - Select the best answer.

1. The series of steps used to solve a problem is called _____.
 - a) The scientific method
 - b) The technological design process
 - c) The nature of science
 - d) Problem solving

2. A technological design can be based on a _____
 - a) Set of criteria
 - b) A pre-existing design
 - c) Completely new idea
 - d) All of the above

3. A model or prototype of a design has been constructed, what is the next step in the design process?
 - a) Present the final solution
 - b) Refine the prototype or model
 - c) Test the prototype to collect data
 - d) Select different idea

4. How is the technological design process different to a scientific investigation?
 - a) The scientific investigation uses pre-existing research and data, while the technological design process does not.
 - b) The scientific investigation does not analyze the results of the tests/trials, whereas the technological design process does.
 - c) The scientific investigation does not identify a problem, whereas the technological design process does.
 - d) The scientific investigation tests the relationship between two variables, whereas the technological design process creates a product.