

# Technological Design Process Assignment – Student Edition

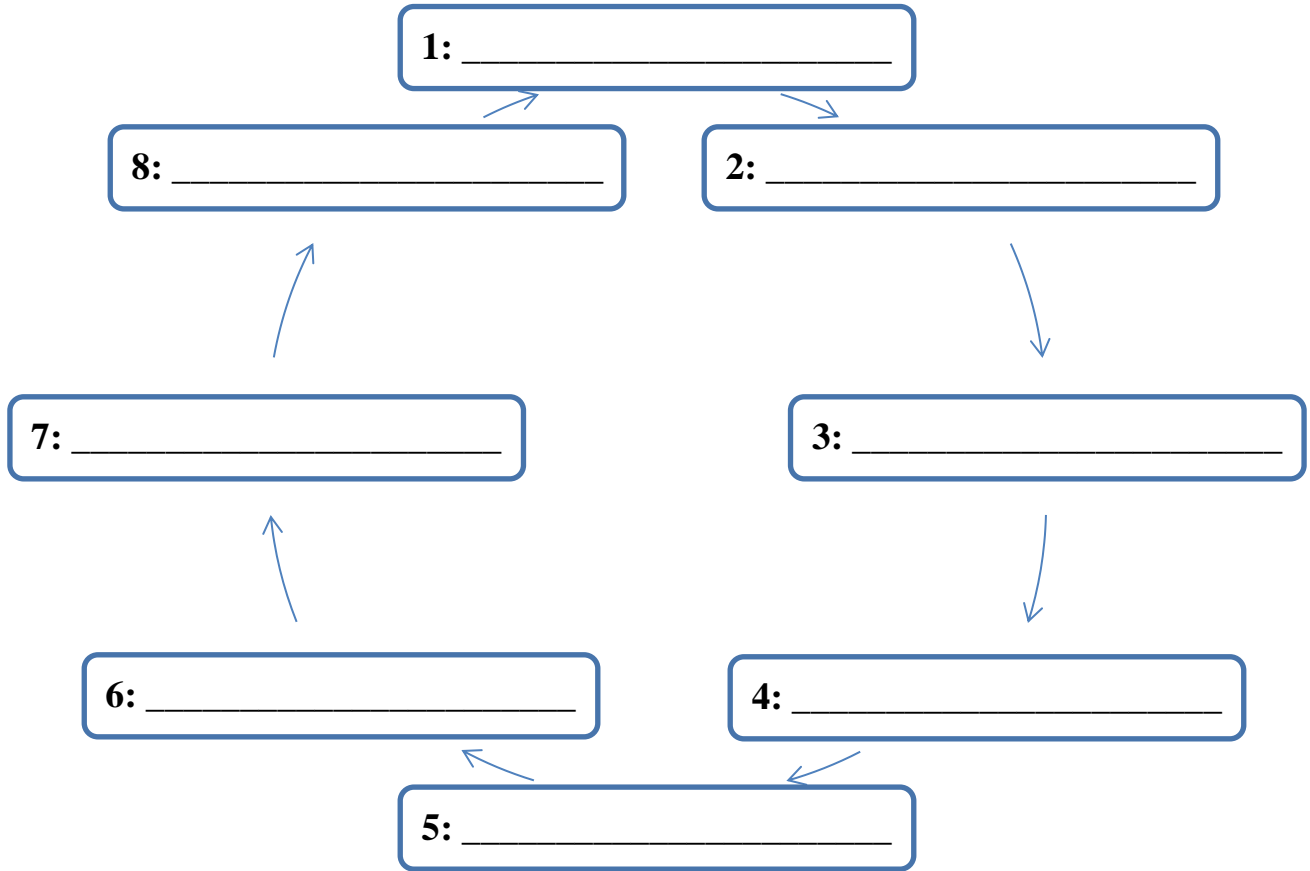
## I. Multiple Choice – Select the best answer

1. Rob and his team have been chosen to build a wind turbine at a local mountain. The turbine needs to generate electrical energy and withstand the harsh winter environment of the mountain. Rob and his team have done their research on the problem. What is the next step?
  - a) Create a prototype of the wind turbine.
  - b) Develop possible solution(s) for the turbine.
  - c) Test the wind turbine on the mountain.
  - d) Redesign a new solution for the turbine.
  
2. The technological design process is \_\_\_\_\_.
  - a) an iterative process
  - b) a process that creates one prototype
  - c) a quick process
  - d) focuses on a good idea
  
3. Students have a box of ice pops to take to their ball game to sell on a hot day. They know they need a way to keep the ice pops from melting for three hours. They have a \$15 budget. Which step of the technological design process does this show?
  - a) Identifying a problem
  - b) Testing and evaluating
  - c) Redesigning
  - d) Developing possible solutions
  
4. Which of the following steps is a part of the testing and refinement stage of designing a mobile phone?
  - a) Making an advertisement for the mobile phone
  - b) Defining the specifications for the mobile phone
  - c) Finding a new hardware for the mobile phone case
  - d) Trying to see if the mobile phone is waterproof

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5. Jacob has noticed that when he opens his bedroom door, the doorknob hits the wall. He decides to design something to absorb the force of the opening door. He has identified the problem. What is the next step in his design process?
- a) Set a purpose.
  - b) Brainstorm solutions.
  - c) Take notes on his design.
  - d) Sketch a possible solution

II. Place the steps of the technological design process in order.



III. Explain how the technological design process can be used to solve a problem.

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