ENGINEERING DESIGN PROCESS MATCHING CHALLENGE

Directions: Match the definitions with the engineering terms. You have (3-5) minutes to complete this task for _____.

Fill in reward

Engineering Design Process Terms:	**Which letter goes here?**
1. Engineering Design Process	_____
2. Define the Problem	_____
3. Do Your Research	_____
4. Develop a Possible Solution	_____
5. Design Your Solution	_____
6. Build a Prototype	_____
7. Test it	_____

Engineering Design Process Definitions:

A involves creating an early, functional version of a product or system to test its design, functionality, and feasibility before full-scale production

B where engineers generate ideas and begin to outline the specific details of a solution that addresses a defined problem and meets established requirements

C a systematic, iterative approach used by engineers to solve problems and develop solutions

D gathering information to understand a problem and potential solutions before developing a design

E the crucial step where a prototype or solution is rigorously evaluated to determine its functionality, performance, and safety

F the crucial first step where engineers clearly identify and understand the need or challenge to be addressed

G the stage where engineers translate their chosen solution concept into a detailed plan, often including drawings, specifications, and prototypes, before moving to the implementation and testing phases