Crane Design and Engineering

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Understanding Testing and Improvement

Name: _____ Date: _____

Answer the following questions based on what you learned about engineering and crane design.

1. What is the first step in the engineering design process?

- **A.** Test
- **B.** Analyze
- **C.** Build

2. Engineers constantly ___ their designs to make them better.

3. What is one way to make a crane design stronger?

4. According to Proverbs 24:3-4, what is built by wisdom?

- **A.** A machine
- **B.** A house
- **C.** A crane

5. Match each engineering step to its description.

Build	Check the design's performance
Test	Create the machine
Analyze	Make changes for better performance
Improve	Look at data to find problems

6. Why is testing important in engineering?

7. The process of engineering is about continuous ___ and improvement.

8. What might you do to lift heavier weights with a crane?

- **A.** Make it smaller
- **B.** Use a stronger pulley
- **C.** Change its color

9. What did you learn about your crane's design after testing it?

10. Understanding helps us build and ___ our projects.

Answer Key

1. Build 2. improve 3. We could use stronger materials or add more support. 4. A house 5. Check the design's performance 6. Testing helps us find out what works and what doesn't in our design. 7. testing 8. Use a stronger pulley 9. I learned that it could lift some weights but needed more support. 10. refine