

3rd Grade Crane Design Challenge Review

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Understanding Compound Machines and Engineering

Name: _____

Date: _____

Answer the following questions based on the lesson about cranes and engineering.

1. What are cranes used for?

- A. To lift heavy objects
- B. To fly in the sky
- C. To dig holes

2. A crane is a type of ____ machine that combines multiple simple machines.

3. What simple machines did you use in your crane design?

4. Which simple machine helps to lift heavy objects in a crane?

- A. Wheel
- B. Pulley
- C. Inclined Plane

5. Match the simple machine to its function in the crane.

Pulley

Lifts objects

Lever

Changes direction of force

6. What was the most challenging part of your crane design?

7. What does Proverbs 8:12 teach us about creativity?

- A. We should not invent things
- B. God gives us wisdom and knowledge
- C. Machines are more important than people

8. Engineers design machines to solve ____ problems.

9. Where have you seen cranes being used?

10. Which of the following is NOT a simple machine used in cranes?

- A. Pulley
- B. Lever
- C. Hammer

Answer Key

1. To lift heavy objects 2. compound 3. I used pulleys and levers. 4. Pulley 5. Lifts objects 6. Making sure it could lift the object without falling over. 7. God gives us wisdom and knowledge 8. real-world 9. I have seen cranes at construction sites. 10. Hammer
