

Name: \_\_\_\_\_

## Project-Based Learning: Caring for Orangutans

### Pre/Post Assessment

1. On a scale of 1-5, circle which number best describes how excited you are about learning about animals and the natural world. A 1 is very bored and a 5 is very excited.
  - 1 - very bored 😞
  - 2 - kind of bored
  - 3 - not excited or bored 😐
  - 4 - kind of excited
  - 5 - very excited 😊
2. What do orangutans need to survive, thrive and be healthy? Circle all correct answers.
  - Food
  - Social interaction with other orangutans
  - New challenges
  - Water
  - Predators
  - Shelter
  - A healthy ecosystem
  - To learn how to do tricks
  - New tools to interact with
3. How do zookeepers, like the ones at the Phoenix Zoo, help care for the needs of animals like the orangutans?
4. What is behavioral enrichment? How does behavioral enrichment help meet the needs of animals in zoos?
5. Name and describe 3 natural behaviors or abilities of orangutans.
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6. Why are orangutans endangered in the wild?
  
7. What can you do to help orangutans in the wild?
  
8. Put the steps of the engineering design process in the correct order from 1-6.
  - \_\_\_ Share results
  - \_\_\_ Make and test the best solution
  - \_\_\_ Identify what's needed to solve the problem
  - \_\_\_ Brainstorm solutions
  - \_\_\_ Define a problem
  - \_\_\_ Evaluate results
  
9. During the engineering design process, when do you Improve the Solution?
  
  
  
  
  
  
  
  
  
  
10. When you are creating a solution to a problem, why is it important to get feedback about your solution?