Compare Engineering Solutions

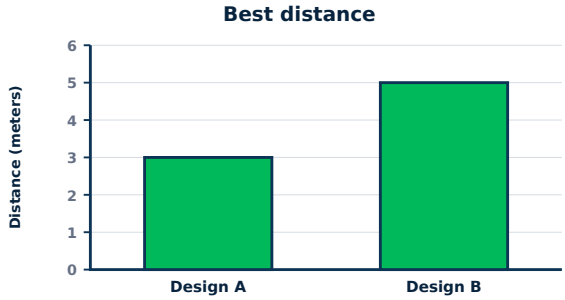
Grade 3 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

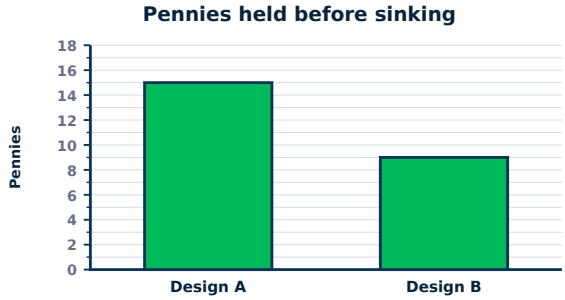
1. A test shows a ramp is too slippery for a toy car to grip. Which redesign fixes this?
   make the ramp steeper add sandpaper to the ramp make the ramp smoother

2. The goal is a paper airplane that flies at least 4 meters. Use the graph. Which design meets the goal?



   neither design Design B Design A

3. The goal is a foil boat that holds at least 12 pennies. Use the graph. Which design meets the goal?

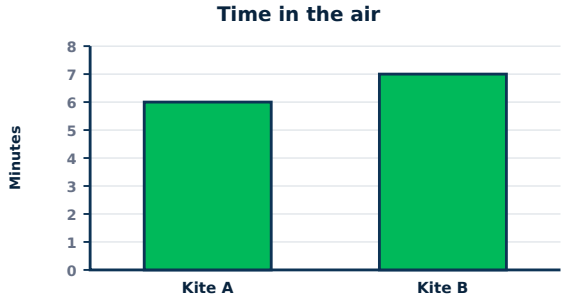


   Design B both designs Design A

4. Tower A is 40 cm tall but falls when shaken. Tower B is 30 cm tall and stays up. The goal is a tower that stays standing. Which meets the goal?
   Tower A both towers Tower B

5. Which statement is based on a test result?
   It was the most fun to build.
   It looks the strongest.
   It held the most books without bending.

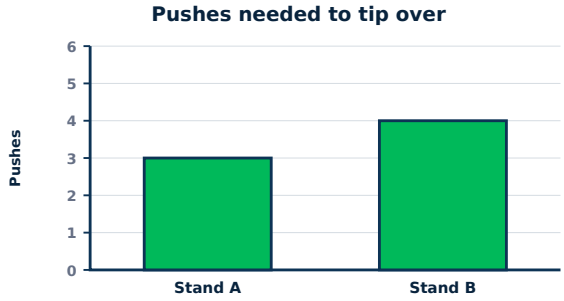
6. The goal is a kite that stays up at least 5 minutes. Use the graph. Which kites meet the goal?



Kite A only both kites Kite B only

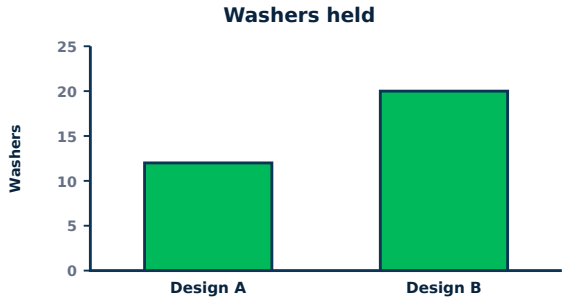
7. Why do engineers compare designs after testing?
to find which used the most tape
to find which was built first
to find which best meets the goal

8. The goal is a stand that takes at least 5 pushes to tip over. Use the graph. Which stands meet the goal?



Stand A Stand B neither stand

9. The goal is a bridge that holds at least 18 washers. Use the graph. Which design meets the goal?



Design B both designs Design A

10. Which measurement should decide which bridge holds the most weight?
how much each bridge weighs empty
how many washers each bridge held
how long each bridge took to build

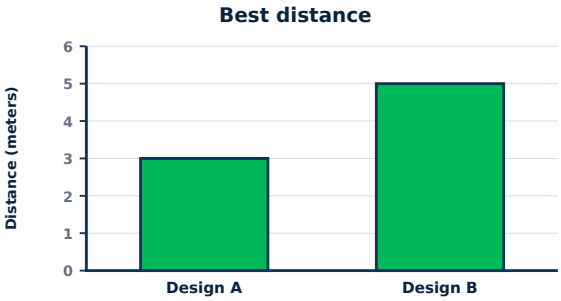
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Answer Key - Grade 3 Science Worksheet - Building Confidence

Circle the answer.

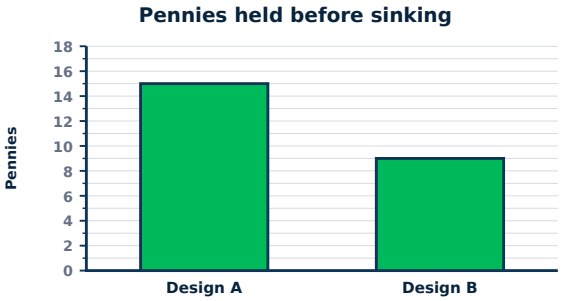
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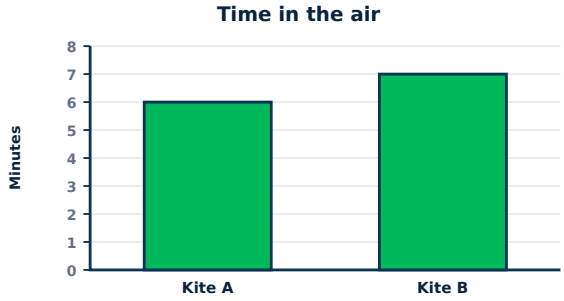


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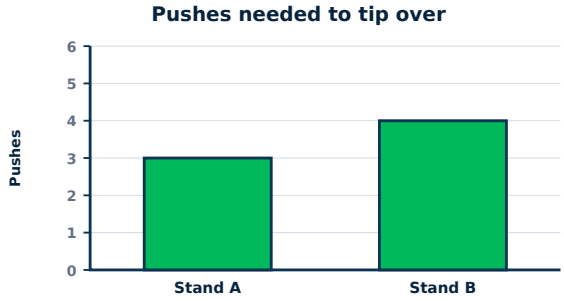
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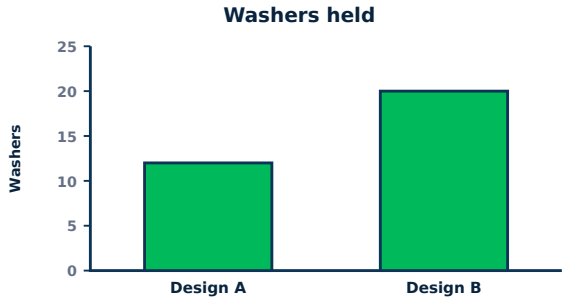
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