Design and Test a Solution

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. A team's paper bridge falls when they add 3 cars. The goal was 5 cars. What should they do next?

   say the bridge works well enough

   make the bridge stronger and test again

   add 10 cars at once on the next try

2. Two criteria for a backpack hook: holds a 3 kg bag and sticks without nails. Test: holds 3 kg but falls off after a day. Which criterion failed?

   holds a 3 kg bag

   both criteria failed

   sticks without nails over time

3. A team's paper bag must carry 5 books. Test: the handles rip at 3 books. Which change answers the failure?

   add a drawing on the side of the bag

   make the bag taller and wider

   make the handles from folded, thicker paper

4. Why should a team write down criteria before they build?

   so the design will look neat

   so they know how to tell if the design works

   so they can skip the test

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Answer Key - Grade 4 Science Worksheet - Building Confidence

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