Design and Test a Solution

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. A school garden needs a fence that keeps rabbits out and costs under $50. Which is a criterion?

   the fence costs under $50

   rabbits cannot get into the garden

   the fence is built in one weekend

2. A bird feeder must keep squirrels out. Test: squirrels climb the pole. Which improvement answers the test?

   fill the feeder with more seeds

   add a smooth cone around the pole

   paint the feeder green

3. A team builds a cardboard boat. Criterion: hold 20 pennies. Constraint: one sheet of cardboard. Test: it sinks at 12 pennies because water leaks in. What should change?

   seal the seams with tape

   use two sheets of cardboard

   test with 12 pennies only

4. A team's tower falls over in a fan's wind. What is the problem to solve?

   the fan is too small

   the tower is not steady in wind

   the tower is too colorful

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Answer Key - Grade 4 Science Worksheet - Building Confidence

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