Design and Test a Solution

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. A toy umbrella must keep a doll dry under a spray bottle. Test: water drips through the paper canopy. What is the best fix?

   spray from farther away

   make the handle longer

   use thinner paper

   cover the paper with plastic wrap

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

   the fence uses only wood from the shed

   the fence costs under $50

   rabbits cannot get into the garden

   the fence is built in one weekend

3. A marble roller coaster must take at least 5 seconds. In testing, the marble takes 2 seconds. Which change answers this problem?

   remove the turns to make it shorter

   make the first drop much steeper

   use a faster marble

   add more turns to slow the marble

4. A team must keep a bowl of water from spilling when carried. Test 1 spilled at the corners. Test 2 (with a lid) did not spill but the lid fell off once. What next?

   go back to the first design

   remove the lid

   add clips to hold the lid on

   carry the bowl faster

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Answer Key - Grade 4 Science Worksheet

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