Design and Test a Solution

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

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

   so they know how to tell if the design works

   so they can skip the test

   so they use more materials

   so the design will look neat

2. A team says their water filter works because the water looks clear. The criterion is "no sand in the water." What should they check?

   how fast the water flows through

   whether the filter looks neat

   whether any sand settles in a cup of the filtered water

   whether the water looks even clearer

3. Materials: one shoe box, cotton balls, foil. Goal: keep an ice cube for 60 minutes. Which plan stays within the materials?

   wrap the ice in a wool sock

   cover the box with bubble wrap

   put the ice in a freezer bag in a cooler

   line the box with foil and pack cotton around the ice

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

   the tower is too short

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Answer Key - Grade 4 Science Worksheet

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