Design and Test a Solution

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. A lunch box must keep a yogurt cold until noon. Which is the criterion?

   the box has a picture on the lid

   the box has a carrying handle

   the box is painted green

   the yogurt is still cold at noon

2. A team has 30 minutes, 8 index cards and tape to build a bridge that spans 20 cm. Which is a criterion?

   the bridge spans 20 cm

   the team has 30 minutes

   the team uses 8 index cards

   the team uses only tape

3. A team tests a paper cup phone. They cannot hear each other when the string is loose. What should they change?

   pull the string tight use a longer loose string whisper more quietly

   use smaller cups only

4. Problem: a school's hallway gets muddy on rainy days. Which pair is one criterion and one constraint?

   keeps mud off the hallway; costs under $40

   is made of rubber; is red

   keeps mud off the hallway; dries shoes fast

   costs under $40; fits by the door

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Answer Key - Grade 4 Science Worksheet

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