Design and Test a Solution

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

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

   paint the feeder green

   hang a second feeder beside it

   add a smooth cone around the pole

   fill the feeder with more seeds

2. A team's shade lowered a toy's temperature by 2 degrees. The goal is 6 degrees. Thermometer readings show the sun shines in from the side. Which change fits the data?

   add side flaps to block low sunlight

   make the top of the shade thicker

   measure only at midday

   move the thermometer into the sun

3. Kids want to keep an ice cube from melting for one hour. They have 20 minutes to build. Which is a constraint?

   the ice cube must last one hour

   the ice cube must not melt

   they have only 20 minutes to build

   the box must keep the ice cold

4. 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

   stop testing and keep the bridge

Scan to get this marked free. No screen time for your child.
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Design and Test a Solution

Answer Key - Grade 4 Science Worksheet

Circle the answer.

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

   paint the feeder green

   hang a second feeder beside it

   add a smooth cone around the pole

   fill the feeder with more seeds

2. A team's shade lowered a toy's temperature by 2 degrees. The goal is 6 degrees. Thermometer readings show the sun shines in from the side. Which change fits the data?

   add side flaps to block low sunlight

   make the top of the shade thicker

   measure only at midday

   move the thermometer into the sun

3. Kids want to keep an ice cube from melting for one hour. They have 20 minutes to build. Which is a constraint?

   the ice cube must last one hour

   the ice cube must not melt

   they have only 20 minutes to build

   the box must keep the ice cold

4. 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

   stop testing and keep the bridge