Engineering Design

Grade 2 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. Which one is a problem an engineer could solve?

   The blocks are red and shaped like cubes.

   A paper bridge sags under blocks.

   The bridge is on a table in the room.

2. The class must fix this: "A paper bridge sags under blocks." What must the new design do?

   make the bridge longer than now

   make the bridge lighter than now

   hold eight blocks

3. A team tests a garden slope with a watering can for rain. They want to keep the soil in place. Soil still washed down to the bottom of the slope. What should the team try next?

   pour more water on the slope

   make the slope steeper than before

   add plants or rocks across the slope

4. The goal is to hold 6 blocks. Bridge A held 7 blocks. Bridge B held 4 blocks. Which bridge met the goal?

   Neither bridge Bridge A Bridge B

5. A group draws a plan before building. Why?

   to check their ideas before they build

   to skip all of the testing at the end

   to make the real thing right away

6. Which one is a problem an engineer could solve?

   The ramp is on the floor next to the wall.

   A toy car rolls too far past the stop line.

   The stop line is made of blue tape on the floor.

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Answer Key - Grade 2 Science Worksheet - Building Confidence

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