Build and Test a Design

Grade 1 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer, or write the answer on the line.

1. A bridge holds weight but bends. Which change keeps what works?

   Change the goal.

   Add a support and keep the wide base.

   Remove the wide base.

   Start over with all new parts.

2. Mia's goal is 4 blocks. Tom's goal is 6 blocks. Both bridges held 5. Who met the goal?

   Both Tom Mia Neither

3. Why draw a plan before you build?

   to hide mistakes to decide what to build to use more glue to skip testing

4. Which sentence is a good design goal?



   The tower must be a surprise.

   The tower must stand and hold 4 blocks.

   The tower must be my favorite color.

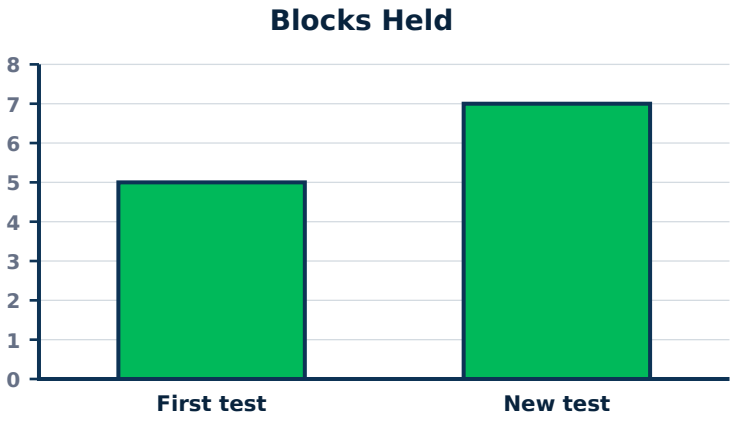
   The tower must be pretty.

5. The goal is 7 blocks. The bridge held 5. How many more blocks must it hold?



   _____

6. Look at the bars. How many blocks did the new design hold?



   _____

7. Test 1 held 3 blocks. Test 2 held 5. Test 3 held 5. What does this show?

The design got worse each time.

The design never changed.

The design got better, then stayed the same.

The design got better each time.

8. A student changes the base, the material and the height all at once. What is the problem?

She will not know which change helped.

Nothing is wrong.

The tower will be taller.

The test will be quicker.

9. A kite does not fly. What is the best next step?



Test it again with no changes.

Throw it away.

Change one thing and test again.

Say it works.

10. The goal is to hold 7 blocks. Which result means the design worked?

It held 6 blocks. It held 8 blocks. It fell at once. It held 5 blocks.

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Answer Key - Grade 1 Science Worksheet - Challenge Me

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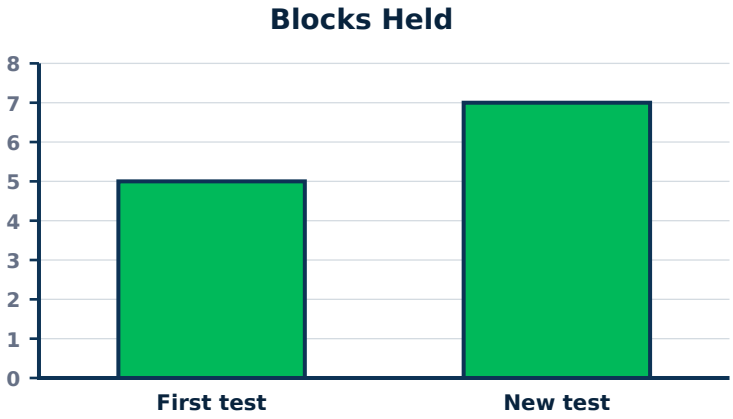
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