Build and Test a Design

Grade 1 Science Worksheet - Challenge Me

Name _____ Date _____

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

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

   The design got better each time.

   The design got better, then stayed the same.

   The design got worse each time.

   The design never changed.

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

   Nothing is wrong.

   She will not know which change helped.

   The tower will be taller.

   The test will be quicker.

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



   Change one thing and test again.

   Say it works.

   Test it again with no changes.

   Throw it away.

4. The goal is to hold 6 blocks. Which result means the design worked?

   It held 7 blocks. It fell at once. It held 5 blocks. It held 4 blocks.

5. Which is a fair test for two paper bridges?

   Use a different table each time.

   Test only one bridge.

   Put the same blocks on each.

   Put more blocks on one.

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

Change the goal.

Remove the wide base.

Add a support and keep the wide base.

Start over with all new parts.

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

Neither Tom Both Mia

8. Why draw a plan before you build?

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

9. Which sentence is a good design goal?



The tower must be my favorite color.

The tower must be a surprise.

The tower must stand and hold 4 blocks.

The tower must be pretty.

10. The goal is 6 blocks. The bridge held 4. How many more blocks must it hold?



_____

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Answer Key - Grade 1 Science Worksheet - Challenge Me

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