Design and Test a Solution

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. Two failures happened in a test: the toy sled was too slow and it tipped over on turns. The team has time to fix one. Which should come first?

   the color, because people notice it

   neither, because both are minor

   tipping over, because the sled cannot finish safely

   the speed, because it is easier

2. Which problem statement gives the best criteria and constraints?

   make a cool watering thing for the plants

   water the plants using lots of different stuff

   help the class plants somehow this month

   keep 3 seedlings watered for a week using one 2-liter bottle

3. Problem: water drips from a classroom sink onto the floor. Which is the best problem statement?

   make the sink and floor a new color

   move the whole class to a bigger room

   design a way to catch drips so the floor stays dry

   stop using any water in the classroom

4. Materials: 2 paper plates, 4 craft sticks, glue. Task: a stand that holds a tablet upright. Test: the tablet slides off. What is the best next step?

   use more glue on the plates' faces

   test with a smaller tablet only

   add a ledge at the bottom to stop the sliding

   add a third plate on top

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Answer Key - Grade 4 Science Worksheet

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