Engineering Design

Grade 2 Science Worksheet

Name _____ Date _____

Circle the answer.

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

   The blocks are red and shaped like cubes.

   The bridge is made of two sheets of paper.

   A paper bridge sags under blocks.

2. The goal is to keep 10 cards on the table. Clip A kept 10 cards. Clip B kept 10 cards. Which clip met the goal?

   Neither clip Both clips Clip B only

3. A toy car rolls down a ramp onto a mat. The team wants it to stop near the line. The car stopped 20 cm past the line. What should the team try next?

   make the ramp steeper at the top

   use a much smoother mat at the end of it

   use a rougher mat at the end of the ramp

4. Which shows the steps engineers follow, in order?

   test it → build it → plan a design → find the problem

   find the problem → plan a design → build it → test it

   plan a design → find the problem → build it → test it

5. The goal is to hold ten books without bending. Shelf A bent when it held ten books. Did the design meet the goal?

   No, it needs to be improved.

   Yes, because it looks good.

   Yes, because it was built carefully.

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

   A toy car rolls too far past the stop line.

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

   The toy car is blue and has red wheels.

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Answer Key - Grade 2 Science Worksheet

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