Design and Test a Solution

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. What is the first step in solving an engineering problem?

define the problem clearly

pick the prettiest design

build the first idea you think of

2. Why do engineers test a design?

to find out if it meets the criteria

to use up extra materials

to make it look nicer

3. A lunch box must keep a yogurt cold until noon. Which is the criterion?

the box is painted green

the box has a carrying handle

the yogurt is still cold at noon

4. Kids want to keep an ice cube from melting for one hour. They have 20 minutes to build. Which is a constraint?

the ice cube must last one hour

the ice cube must not melt

they have only 20 minutes to build

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Answer Key - Grade 4 Science Worksheet - Building Confidence

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