

Name: _____

FCIM Science Assessment

Big Idea 1: Nature of Science SC.5.N.1.1

Test #2

- 1) Jonathan and Sarah have performed an experiment and are not sure their results are valid. What should they do to check their results?
- ☐ A. average their data
 - ☐ B. change their lab report
 - ☐ C. perform a new experiment
 - ☐ D. repeat the same experiment
- 2) The students in Miss Smith's class were using catapults to launch small and large marshmallows across the room. The table below shows the distances in centimeters (cm) that the marshmallows traveled. Which of the following statements best describes the students' data?

	Small	Large
Trial 1	22 cm	8 cm
Trial 2	30 cm	10 cm
Trial 3	27 cm	8 cm
Trial 4	16 cm	12 cm
Trial 5	25 cm	11 cm
Trial 6	32 cm	7 cm
Trial 7	25 cm	8 cm
Trial 8	20 cm	11 cm
Mean	25 cm	9 cm

- ☐ A. Small marshmallows travel an average of 9 centimeters.
- ☐ B. Large marshmallows travel an average of more than 20 centimeters.
- ☐ C. On average, small marshmallows travel farther than large marshmallows.
- ☐ D. On average, large marshmallows go higher in the air than small marshmallows.

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- 3) During a recent drought, Sonya noticed some yards in her neighborhood were healthy and green, and some were mostly brown and dead. Sonya believes the difference has to do with how often her neighbors mow their grass. What should Sonya do first to find out if she is right?
- ☐ A. Ask her neighbors to cut their grass on the same schedule.
 - ☐ B. Study other neighborhoods to see if there are similar problems.
 - ☐ C. Compare the neighbors' lawn mowers to see if there are similarities.
 - ☐ D. Survey her neighbors about their mowing schedule and record the details.
- 4) Jordan wants to find out if a hamster can learn a maze as quickly as a mouse can. She has researched mice and hamsters and predicts which rodent she thinks will learn more quickly. What should her next step be?
- ☐ A. analyze hamster behavior in the maze
 - ☐ B. research how a rabbit would behave in a maze
 - ☐ C. observe the behavior of both rodents in the maze
 - ☐ D. make conclusions about rodent behavior in the maze
- 5) Stephen and his classmates are going on a field trip to a nature preserve. His teacher has told the class that when they return to school, they will be required to give a report on their trip and the animals and plants they saw while walking through the preserve.

What is the BEST method Stephen can use to make sure he remembers everything he sees?

- ☐ A. He should bring a pad and pen to write down his observations.
- ☐ B. He should do research on the computer when he returns to class.
- ☐ C. He should ask his classmates to help him remember what he saw.
- ☐ D. He should look for a map of the nature preserve at the visitors' center.

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Answer Key:

1. D

2. C

3. D

4. C

5. A