

Name _____

The Nature of Science and Technology

1. Shaheen and Eli wanted to know if beans grew taller than corn. They each set up an experiment. They used the same procedure for the experiment shown in the tables below.

Shaheen

Fertilizer	A	A
Plant	corn	beans
Growth	5.0 cm	7.5 cm

Eli

Fertilizer	B	B
Plant	corn	beans
Growth	6.5 cm	5.0 cm

Shaheen found that beans grew taller than corn, but Eli found that corn grew taller than beans. What is one possible reason for their different results?

2. Matthew and Andrew both did a study on the effects of lack of sleep on memory. Matthew studied 100 people and Andrew studied 10 people. They used identical methods of observation and questioning. Whose results would be more accurate and why?

3. What is the name of the tool that you would use to get a closer look at objects that are very far away, such as the planet Venus?

4. Give one example of how a person uses science at home.

5. Give one reason why people buy cars.

6. Give one way that people misuse cars.

7. Explain one way that pesticides can be harmful.

8. List two things in this picture that are not present in nature, but have become available because of science or technology.



TEACHER SCORING GUIDE

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Item Number	Answer	Standards Indicator
1	Shaheen and Eli used different fertilizers.*	5.1.1
2	Matthew, because he had a larger sample size.*	5.1.2
3	telescope	5.1.4
4	measuring <i>or</i> cooking*	5.1.3
5	travel faster <i>or</i> farther*	5.1.5
6	pollution <i>or</i> drive recklessly*	5.1.5
7	The pesticides can runoff into the river, which can harm the animals that drink from the river.*	5.1.6
8	canoe; hat*	5.1.7

* Give credit for all valid answers.