

Name: _____ Section: _____

Scientific Processes – Open Response Question 2

Since Peter learned that Venus Flytraps typically grow best in warmer/milder climates, he wondered if cooler temperatures would impact how quickly they closed. Therefore, he designed and conducted an experiment. For his experiment, he purchased two identical (age, size, etc.) Venus Flytraps from a local florist that sold exotic plants. He then placed one Venus Flytrap outside (Temperature = 6.9 °C) and one Venus Flytrap inside his house (Temperature = 22.2 °C). After allowing the Venus Flytraps to adjust to their environment for a day, Peter began his experiment. Peter used a small dowel (wooden stick) to activate the Venus Flytraps by touching their “trigger hairs.” Once he did this he used a stopwatch to determine how many seconds it would take to completely close. His data is recorded in the tables below.

Venus Flytrap – Outdoors (Temperature = 6.9 °C)		Venus Flytrap – Indoors (Temperature = 22.2 °C)	
Plant	Time (sec)	Plant	Time (sec)
1	19.42	1	2.28

- Describe two things that Peter did right in his experiment.
- Describe two things that Peter could improve upon in his experiment.
- Would it be reasonable for Peter to draw conclusions from this data?
Explain your reasoning.