

# \_\_\_\_\_

Name: \_\_\_\_\_

Science, Technology, and Engineering UI L6

Period: \_\_\_\_\_

Focus Checklist Questions - Day 7

Date: \_\_\_\_\_

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**Standards:**

SI #3: Use appropriate mathematics, tools and techniques to gather data and information.

SI #5: Develop descriptions, models, explanations, and predictions.

SI #8: Communicate scientific procedures and explanations.

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**Directions:** Answer each by describing all that you know about each focus statement below. After we go over in class you will then put a check mark in the box next to the question if you explained it correctly. The unchecked boxes will help give you a focus when you are studying. This does not mean you do not want to study the other topics, but it will help you know where to spend a little more time when you are studying.

1. You will learn that science is the systematic study of natural events and conditions.

2. You will learn that scientists possess many traits that aid in the advancement of science.

3. You will learn the difference between science and pseudoscience.

4. You will learn how scientists develop explanations.

5. You will learn that a theory is supported by a large diverse body of experimental data.

6. You will learn how to evaluate sources of scientific information.

7. You will learn that scientists use different types of investigations to study the natural world.

8. You will learn how scientists use different processes in scientific investigations.

9. You will learn some of the characteristics of a good scientific investigation.

10. You will learn that measurements are a way of quantifying observations.

11. You will learn scientists use the International System of Units, prefixes, and scientific notation.

12. You will learn that scientists use various tools to make measurements.

13. You will learn that measurements can be evaluated by their precision and accuracy.

14. You will learn that tables can be used to represent data, especially numbers.

15. You will learn that graphs are a way of representing data.

16. You will learn that statistics are used to analyze data.

17. You will learn that engineers apply science and math to develop technology.

18. You will learn that technology can be simple or complex.

19. You will learn that engineers follow a methodical process.