

STUDY GUIDE UNIT 1 LESSON 1
Each question may have more than 1 answer

Explain below each question why you chose the answer.

1) Which of the following is always considered part of a scientific investigation?

- A. a science book
- B. lab notes
- C. **observations about the natural world**
- D. a scientist professional opinion

2) Which of these questions could be answered using a scientific investigation?

- A. What is the best car to own?
- B. Which book about science is the best?
- C. **Why is there fog on my windows sometimes?**
- D. Which science movie is the most fun to watch??

3) Which statement **best** describes science?

- A. Results in the science lab
- B. Facts in your science book
- C. **a study of natural events and conditions**
- D. a complete explanation of everything that happens in the universe

4) Which of the following is a question that a scientist might ask?

- A. Which animal is my favorite?
- B. Why do baby cats grow faster when eating a specific food?
- C. Which animal has the prettiest fur?
- D. **Which dog training method is more effective?**

5) A scientist reads in a publication that adding a specific fertilizer will result in almost 100% increase in plant growth? What would a scientific reaction be to this information? What would this a scientist do after reading this? **Create a test to show if this this happens in an experiment.**

6) Which of these questions can be answered by a scientific investigation?

- A. Which house in the neighborhood is the nicest?
- B. Which house in the neighborhood is best designed to prevent storm damage?**
- C. Which house in the neighborhood has the nicest lawn?
- D. Which house in the neighborhood has the most exposure to the sun?**

7) **True** or False? A scientific observation must include observations about natural events or conditions.

8) Which of these activities could be part of a scientific investigation?

- A) Recording the number of chip rocks under a waterfall**
- B) Determining which song is most popular among 6th graders
- C) Analyzing weather for the week**
- D) Asking scientist there opinion on a topic.

9) What is empirical evidence?

Empirical evidence is data acquired by observation or experimentation.

Give 2 examples of empirical evidence

10) What do use when you make an observation? Hint it start with an S.

11) What is your books definition of science?