**Pre – AP Chapter 1: Reading Guide** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Start on page 3 and answer the following questions in your OWN words:

1. What is HGH?

2. Why does David need HGH?

3. Personally, do you think this is a good idea? \_\_\_\_\_\_\_\_\_\_\_\_ Justify your opinion:

4. Define “science”:

5. List some goals of science:

6. Why is it important to control variables in ANY experiment?

7. What is the difference between an Independent variable and a dependent variable?

8. What are two main types of data? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. List some research tools that you may use this year?

10. What does “sources of error” mean to you?

11. Summarize why experiments are NOT always possible:

12. List some scientific attitudes that good scientists share:

13. Why is peer review important in science?

14. What is a theory?

15. So, is the statement “it’s ONLY a theory” accurate? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Explain what you mean:

16. Define bias:

**Matching** - Match the characteristic of life listed below with the statement that best goes with it.

\_\_\_\_ 1. All life is made up of cell(s) A. May be sexual or asexual

\_\_\_\_ 2. Types of reproduction B. Adapting to ones environment over some period of time

\_\_\_\_ 3. Lifes genetic material C. Maintaining constant internal conditions

\_\_\_\_ 4. A reason an organism must grow D. An organism can be uni or multicellular

\_\_\_\_ 5. Stimuli (pl) or stimulus E. A signal that elicits a response

\_\_\_\_ 6. Homeostasis F. Deoxyribonucleic Acid

\_\_\_\_ 7. Evolve G. To be mature enough to carry offspring

\_\_\_\_ 8. Obtaining energy H. Plants use photosynthesis

Give your own unique example of:

A stimulus:

Asexual reproduction:

Obtaining energy:

Read over the Skills Lab on page 26 and be prepared to do this lab in class.