

## Final Exam Study Guide – Unit 1: The Science of Life

1. What are the steps of the scientific method?
  - a.
  - b.
  - c.
  - d.
  - e.
  - f.
2. A \_\_\_\_\_ is an educated guess, whereas a \_\_\_\_\_ has been through extensive testing to support it and a \_\_\_\_\_ is an idea that is accepted as being true.
3. In an experiment, variables are used. The \_\_\_\_\_ variable is the variable that is changed by the scientists to see if it has an effect on something else. The \_\_\_\_\_ variable is the variable that is measured or studied and is a result of changes with the independent variable. \_\_\_\_\_ are the key factor of the experiment which are NOT changed.
4. In order to analyze data, scientists generally organize data into either a \_\_\_\_\_ or a \_\_\_\_\_, which allows them to more easily see patterns and draw conclusions
5. Name the 7 characteristics of life:
  - a.
  - b.
  - c.
  - d.
  - e.
  - f.
  - g.
6. Sweating and shivering are ways that your body maintains a constant internal temperature. This maintaining a constant internal environment is known as \_\_\_\_\_.
7. \_\_\_\_\_ is all the chemical reactions that occur in organisms.
8. The genetic material used in heredity for all organisms is \_\_\_\_\_.
9. Organization of a multicelled organism:  
\_\_\_\_\_ → \_\_\_\_\_ -> \_\_\_\_\_ -> \_\_\_\_\_ -> \_\_\_\_\_