
Why Study Biology?

1. Do you want to know God?

2. Do want help with other classes?

- a. Knowledge of God is foundational to all form of understanding. (proverbs 9:10)
- b. Since studying life can help us know God and

What is Life?

1. Composed of one or more Cells. (cellular organization)

2. Stores "genes" on DNA (Heredity)

3. Capacity to grow, reproduce, and develop.

- a. Grow meaning grow in stature
- b. Develop as in mature over time.

4. Capture and use energy and raw materials. (Metabolism)

5. Sense and response to the environment and tend to adapt to their environment over time (homeostasis)

What About?

What about Viruses? (are they alive?)

- a. No cells & can't reproduce independently.

What about Mad Cow disease – prions?

- a. Aberrant proteins; no cells & can't reproduce independently.

What about Angels or God?

- a. Life = Biological definition; not Spiritual.

How do we ask and answer questions Scientifically?

Scientific Method:

1. Observe phenomenon >> Questions.
2. Develop Hypotheses.
 - a. Very general statement.
 - b. Must make into a prediction.
3. Make Testable predictions.
4. Devise test of predictions.
5. Carry out test to analyze results.
6. Interpret data/results.

Role of Experiments

1. Procedures used to study a phenomenon under known conditions.
2. Can never prove a hypothesis 100% correct.
3. Can't prove a Hypothesis "true".