

Kentucky Class Notes

Earn an A+ with Class Notes
<http://KyClassNotes.com>
859.252.NOTE

BIO 103 Palmer
Spring 2012
Test 1

January 12, 2012

Opening: Why is biology important?

- Biology is closely linked to cancer. 1 in 4 people are diagnosed with cancer and out of this 1 in 9 women are diagnosed with breast cancer.
- Biology is related to the destruction of the tropical rain forest. Forests are being cleared at an alarming rate daily and 1 to 2 percent is destroyed every year. These forests will never grow back.
- Biology is related to the greenhouse effect. Glaciers and polar ice caps are melting and crop failures, drought, and famine are present.
- Biology is closely linked to the loss of biological diversity. Over 100,000 species are expected to be extinct in the next 20 years, which is 1/4 of all species on Earth. If this happens, genes will be lost that could help find the cure for cancer or AIDS.
- Biology deals with the issue of overpopulation. There are 6,987,160,796 people in the world and it is increasing every day. In forty years, the population will have doubled and by 2050 there will be approximately 10-14 billion people in the world, mostly in poor third world countries.



859.523.3353

© 2011 Kentucky Class Notes LLC. All Rights Reserved
Any attempt to reproduce this packet is punishable by
federal copyright law.

859.252.NOTE

Kentucky Class Notes

Earn an A+ with Class Notes
<http://KyClassNotes.com>
859.252.NOTE

**BIO 103 Palmer
Spring 2012
Test 1**

January 17, 2012

Chapter 1 Section 1

The Process of Science

The world and how it functions can be interpreted in three ways: through religion, philosophy, and science.

- **Religion** is the belief in and devotion to a supernatural power. It is considered to be the creator of the universe.
- **Philosophy** is the investigation of the nature, causes, or principles of the reality of knowledge.
- **Science** is a practice that uses the **scientific method**. This method includes processes such as: observing, proposing ideas, testing hypotheses, and disposing of the ideas that do not work. Science is based on testing and is not a large configuration of facts that can be memorized. Because of this, science cannot test supernatural forces; instead, it can only measure the physical aspects of life.

The Nature of Hypothesis

A **hypothesis** is an explanatory explanation for the experiment being observed. It must be testable and can potentially be proven false. Hypotheses come from both logical and creative influences. The imagination, intuition, chance, logic, experience and previous scientific results are all examples that can influence a hypothesis.

Science vs. Technology

The line that divides the aspects of science and technology can be confusing.



859.523.3353