# Biological Science 1 Bio 101 Study Guide Chapters 1-3

### Chapter 1

#### Key Concepts:

#### 1.1 The Scientific Method

- -Observation and experimentation are used to collect data and test hypotheses
- -Theories are developed to explain the observations
- -Theories are constantly being revised as new information is discovered

#### 1.2 The Cell

- -Cells are the basic unit of life
- -All cells come from preexisting cells
- -Cells carry out the functions of life

#### 1.3 Genetics

- -Genetics is the study of heredity
- -DNA is the molecule that contains the genetic information
- -Genes are the units of hereditary information

#### Important Events:

- The discovery of the cell by Robert Hooke in 1665
- -The discovery of DNA by Friedrich Misscher in 1869
- -The discovery of the genetic code by Francis Crick, James Watson, and Maurice Wilkins in 1953:

#### Notable Figures:

- -Robert Hooke- discovered cells in 1665
- -Priedrich Miescher- discovered DNA in 1869
- -Francis Crick, James Watson, Maurice Wilkins- discovered the genetic code in 1953

## Chapter 2

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**Robert R. Redfield** 



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