

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 Miescher 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
- Friedrich Miescher- discovered DNA in 1869
- Francis Crick, James Watson, Maurice Wilkins- discovered the genetic code in 1953

Chapter 2

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Mark Anestis, Kellie Ploeger Cox

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