

# Study guide

- How are different traits inherited from one generation to the other?
  - What was the experimental setup for 1920s Frederick Griffith's experiment?
  - What was the major conclusion from this experiment?
  - What was the experimental setup for 1944 Avery, McCleod and McCarthy's experiment?
  - What did they conclude from their experiment?
  - What is the chemical substance that carries traits?
  - What is DNA made up of?
  - What are nucleotides? What bond connects nucleotides to create a polymer?
  - What are the 3 components that make up a nucleotide
  - What is special about the 5' and 3' position of a nucleotide?
  - What are the two types of bases found in DNA
  - What is Chargaff's rule?
  - What was concluded from Rosalind Franklin's diffraction pattern?
  - What was Watson and Crick's DNA model?
  - What resides in the inner core? What makes the backbone?
  - What are the features of Base pairing in DNA?
  - What was the experiment conducted to show DNA replicated in a semi-conservative manner?
  - What does it mean that DNA is semi-conservative?
  - DNA replication is catalyzed by what enzyme?
  - What is the template strand, what is a growing strand .
  - What enzyme is responsible to unwind the DNA during replication
  - What are the key features of DNA polymerase? ( fidelity, proof-reading etc)
- 
- What is the difference between nucleotides and nucleosides
  - Which bases are Purines? Which are pyrimidines?
  - What are phosphor-di-ester bonds
  - What does it mean that DNA replication is bi-directional?
  - What is an origin, replication and replicon?
  - What are the key molecules/enzymes driving DNA replication? What is the function of each
  - What is leading and lagging strand
  - What are okazaki fragments? Why are they created ( think about replication taking place only 5'-3')
  - What mechanism prevents DNA shortening at the end of lagging strand
  - What is the function of telomerase and telomeres?
  - What are the common lesions that can happen in DNA
  - What are the mechanisms to correct DNA if a lesion happens( four types of repair mechanisms discussed in class)
  - How did Beadle and Tatum come up with one gene - one enzyme hypothesis?
  - What does each gene make?
  - What is the central dogma of molecular biology?

# Key Concepts Biology Study Guide

**L Manion**



## **Key Concepts Biology Study Guide:**

## **Key Concepts Biology Study Guide** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Key Concepts Biology Study Guide**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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