

**Second Semester Biology Exam Study Guide**

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Vocabulary (not a complete list)

Photosynthesis	Telophase	Homozygous	Transcription	Vestigial
Cellular respiration	Cytokinesis	Heterozygous	Translation	structures
Mitochondria	Stem Cells	Phenotype	Codon	Gradualism
Chloroplast	Cancer	Genotype	Anticodon	Domain
Fermentation	Gamete	Polygenic traits	Evolution	Eukaryote
Aerobic Respiration	Zygote	Sex-linked traits	Natural Selection	Prokaryote
ATP	Haploid	Codominance	Adaptation	Biology
Mitosis	Diploid	Nucleotide	Homologous	Control
Interphase	Meiosis	Purine	structures	Constant
Prophase	Genetics	Pyrimidine	Analogous	Dependent variable
Metaphase	Gene	Mutation	structures	Independent
Anaphase	Allele	Replication		Variable

Main Concepts:

1. What are the chemical reactions for cellular respiration? Identify the reactants and products, their sources, and their functions.
2. What are the chemical reactions for photosynthesis? Identify the reactants and products, their sources, and their functions..
3. What is the purpose of fermentation?
4. Complete the chart below to compare and contrast steps of **photosynthesis**:

	What is made	What's used	Overall purpose
Light-dependent			
Light-independent			

5. Complete the chart below to compare and contrast the steps of aerobic **cellular respiration**.

# 2nd Semester Biology Semester Test Study Guide

**KJ Lindholm-Leary**



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