

## DNA Structure and Function

### Function of DNA

- Holds instructions to protein synthesis
- Contains genes in a specific orientation unique to the individual



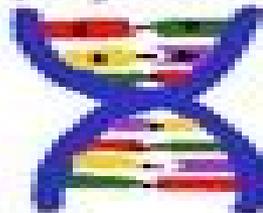
### Structure of DNA (Deoxyribonucleic acid)

- double helix with anti-parallel strands (opposite alignment) complementary strands
- Made up of nucleotides (sugar, phosphate backbone & nitrogen bases)
  - Sugar: deoxyribose

→ 4 Nitrogenous bases:

Adenine, Thymine, Cytosine, and Guanine

- A always bonds with T      G      C always bonds with G
- Bases held together by hydrogen bonds



### DNA Orientation

1. Labeled 5' (prime) end - Phosphate
2. Other end labeled 3' (prime) end - Hydroxyl
3. Shows DNA molecule direction during synthesis



DNA is involved in 2 Key Processes:

#### 1. DNA Replication

- cells make copy of DNA in preparation for cell division
- occurs in nucleus

#### 2. Protein Synthesis

- production of proteins
- starts in nucleus, finishes in ribosomes

# Dna Structure Study Guide

**ML Morrison**



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web exercise 2 a are the four daughter cells of meiosis genetically identical or different from one another explain your answer describe the daughter cells of your meiosis model what color and how many of each color beads were present in each of the four daughter cells the four daughter cells of meiosis are not genetically identical

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bead chromosomes for one of the phases on a separate sheet it is not necessary to draw each individual bead draw a large  
circle on the paper to represent the cell and the nucleus with a pencil

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web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and  
meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in  
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