

## Presentation Notes

Presentation   DNA  

Lesson   5.1  

Notes from Presentation: The Nucleus: Found in eukaryote cells. Contains important organelle components and compounds required for cell replication

Inside the cell: cell-nucleus-chromosome-DNA

Chromosomes: Found within the nucleus • Contain DNA, the building block of genes

DNA Defined: DNA = Deoxyribonucleic acid, Double-stranded nucleic acid molecule arranged as a double helix, Main constituent of the chromosome, Carries the genes as segments along its strands

DNA Composition: DNA is made up of: Phosphoric acid, Deoxyribose (sugar), Four nitrogen bases – Cytosine (C) – Thymine (T) – Adenine (A) – Guanine (G) Hydrogen

DNA Base Pairing: DNA bases always combine as follows: Cytosine (C) combines with Guanine (G), Adenine (A) combines with Thymine (T)

DNA Replication When cells divide, DNA strands must replicate. Strands unwind, Base pairs detach, Each strand replicates, forming two complete strands.

Genes: Segments of DNA, Define certain physical characteristics of living things

Genetic Inheritance: Genes replicate as DNA is copied, Genes define the physical traits of a living organism, Genes are passed on to offspring during fertilization



# AFNR Reflection Page

List five key points that are important to remember from this presentation.

1. The Nucleus: Found in eukaryote cells. Contains important organelle components and compounds required for cell replication
2. Cytosine (C) combines with Guanine (G)
3. Adenine (A) combines with Thymine (T)
4. Segments of DNA, Define certain physical characteristics of living things
5. Genes replicate as DNA is copied, Genes define the physical traits of a living organism, Genes are passed on to offspring during fertilization

List three ideas or concepts that this new information has in common with previous things learned.

1. Cytosine (C) combines with Guanine (G)  
Learned in biology
6. Adenine (A) combines with Thymine (T)

Learned in biology

2. Segments of DNA, Define certain physical characteristics of living things  
Learned in biology

List questions or ideas that remain unclear about the information presented that should be asked for clarity at the appropriate time. NONE NONE NONE