WINK SHEET— DNA Structure and Replication

Theme: Each chromosome consists of a single DNA molecule. Each gene on the chromosome is a particular segment of DNA. The chemical structure of DNA provides a mechanism that ensures that information is preserved and transferred to subsequent generations.

Expectations:

- * Develop and use models at different scales to explain the relationship between DNA, genes, and chromosomes in coding the instructions for characteristic traits transferred from parent to offspring.
- * Develop and use models to explain how genetic information (DNA) is copied for transmission to subsequent generations of cells (mitosis).

Objectives: On a scale of 0-5, with 0 being "I know absolutely nothing" and 5 being "I am exceptionally confident in my ability," please rank your understanding of each objective at the end of the unit

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•	Recognize the chemical name of DNA and RNA
•	Identify the parts of a nucleotide
•	Recognize the names of the 5 nitrogenous bases and identify which nucleic acid
	they are related
•	Differentiate between the structure and function of the different types of
	nucleic acids
•	Relate the location of genes to chromosomes
•	Summarize how DNA acts as the blueprint for life
•	Sequence the steps of Replication
ext	book: We will be covering pages 192-215 in your textbook. Please mark which
atom	ante apply to your use of the toythook on this unit

Te statements apply to your use of the textbook on this unit.

•_	I read the entire reading for this chapter
•_	I read part of the reading for this chapter
•_	I used the textbook to assist in my understanding of vocabulary from this unit
•_	I used the textbook to assist in my understanding of the objectives
•_	We have a text book?
•	Other

Vocabulary:

- Nucleic acid
- DNA
- RNA
- Nucleotide
- Nitrogenous base
- Sugar

- Phosphate group
- Complementary bases
- Chromosome
- Chromatid
- Gene

- Genetic code
- Sex Chromosome
- Autosomes
- Replication

Activities

- DNA extraction
 The Secret of Photo 51 Movie
 The Scientist discovers DNA cartoon
 Cracking the code movie