

Name: KEY

Pd. _____

Date: _____

DNA Replication & Cell Division Review

Directions: Complete each sentence.

1. Guanine, Cytosine, thymine, and adenine are the four nitrogenous bases in DNA.
2. In DNA, guanine always forms hydrogen bonds with Cytosine.
3. The process of DNA replication produces a new copy of an organism's genetic information, which is passed on to a new cell during mitosis.
4. The double coiled, "staircase" shape of DNA is called a double helix.
5. What type of bond does the enzyme DNA Helicase break down between nitrogen bases?
hydrogen bonds
6. In a eukaryotic cell, where is the DNA found and replicated? nucleus
7. Label the **nucleotides** (A, T, G, C) in the DNA molecule on the right:

8. Circle one entire nucleotide. What are the 3 parts of a nucleotide?

deoxyribose sugar

phosphate

nitrogenous base

