

DNA Structure Worksheet

Thursday, January 13, 2022 1:19 PM



DNA
Structure ...

Name: _____

Date: _____

The Structure of DNA

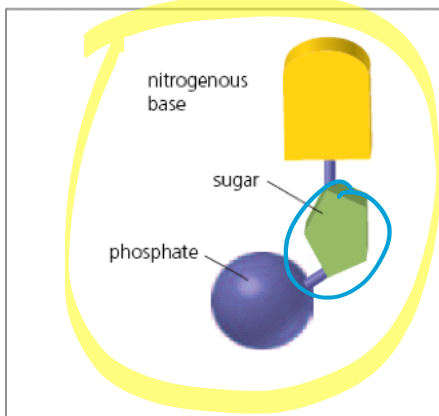


Figure 1: A **nucleotide** is composed of a **sugar**¹ molecule, a **phosphate**² molecule and a **nitrogenous**³ base.

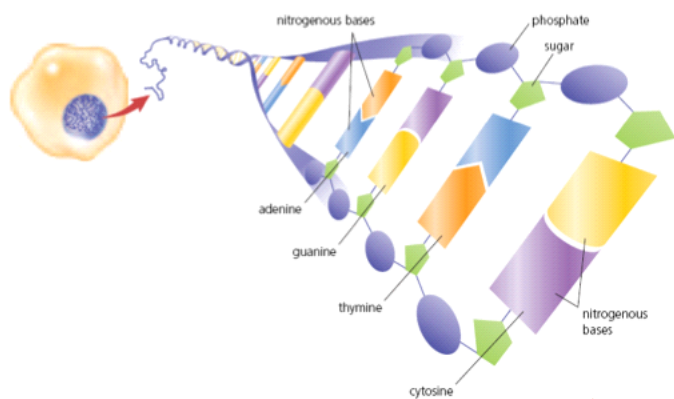


Figure 2: DNA molecules are made of two strands of **nucleotide** joined by their **sugar**⁵ molecules and by their **phosphate**⁶. The linked bases are called base pairs. A single chromosome can contain millions of base pairs.

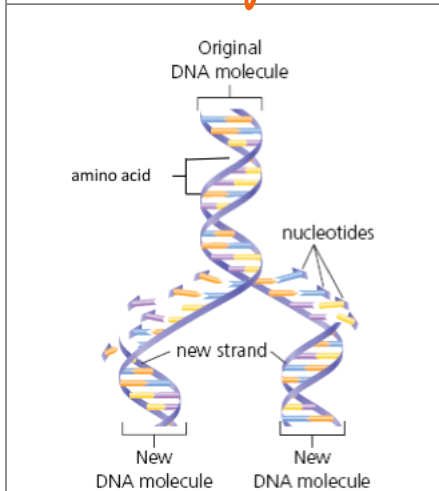


Figure 3: To replicate, a DNA molecule separates between the **base pairs**⁷. Each separate side acts as a template for free **nucleotides**⁸ to join the opened strand.

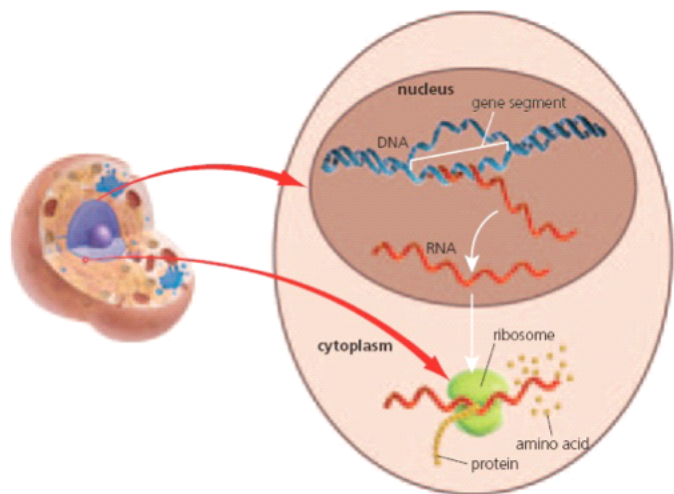


Figure 4: **RNA**⁹ acts as a messenger. It carries a gene's instructions from the **nucleus**¹⁰ to a **ribosome**¹¹ in the cytoplasm.