DNA Model Structure Quiz Review

1). What is this a model of? DNA molecule

2). What is the long name for DNA? deoxyribonucleic acid

3). What is the shape of a DNA molecule? double helix

4). What does each white sphere O represent? deoxyribose sugar

5). What does each black disk - represent? Phosphate group

6). What does each color represent? nitrogen base

7). What type of bond joins 2 colors together? hydrogen bond

8). List the names and symbols for the 4 colors:
   * **Adenine (A)**
   * **Thymine (T)**
   * **Guanine (G)**
   * **Cytosine (C)**
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9). List the symbols for the 2 purines:

\[ \text{A} \& \text{G} \quad \text{(double C ring)} \]

10). List the symbols for the 2 pyrimidines:

\[ \text{T} \& \text{C} \quad \text{(single C ring)} \]

11). List how the colors pair up together:

\[ \text{A} - \text{T}, \quad \text{C} - \text{G} \]
\[ \text{T} - \text{A}, \quad \text{G} - \text{C} \]

12). White sphere + black disk + color = 3 Parts

\[ \text{DNA nucleotide} \]

13). How many strands are there in a DNA molecule? 2 Strands

= backbone of DNA

14). DNA is the genetic code or blueprint for making Proteins