Counting Atoms Worksheet

Section 1: Exploring More Complex Molecules

- 1. Glucose ($C_6H_{12}O_6$)
 - a. Count the number of carbon (C), hydrogen(H), and oxygen (O) atoms.
 - b. Question: How is glucose used by our bodies?
- 2. Ammonium Nitrate (NH₄NO₃)
 - a. Count the number of nitrogen (N), hydrogen (H), and oxygen (O) atoms.
 - b. Question: What are some uses of ammonium nitrate in agriculture?

Section 2: Involving Biochemical Molecules

- 1. Hemoglobin ($C_{2952}H_{4664}N_{812}O_{832}S_8Fe_4$)
 - a. Count the number of carbon (C), hydrogen (H), nitrogen (N), oxygen (O), sulfur (S), and iron (Fe) atoms. (Note: Simplified counting for key elements may be performed.)
 - b.Question: Explain the role of hemoglobin in the human body.
- 2. DNA Segment ($C_{10}H_{14}N_2O_5$)
 - a. Count the number of carbon (C), hydrogen (H), nitrogen (N), and oxygen (O) atoms.
 - b. Question: How does DNA store genetic information?