

**Organic Compound Worksheet**

1. What are the characteristics of life?  
\_\_\_\_\_  
\_\_\_\_\_
2. What are the four basic compounds of life?  
A. \_\_\_\_\_ C. \_\_\_\_\_  
B. \_\_\_\_\_ D. \_\_\_\_\_
3. What element does all living organisms possess? \_\_\_\_\_
4. What is the difference between saturated and unsaturated fats?  
\_\_\_\_\_  
\_\_\_\_\_
5. Please fill in the blanks for the following.
  - a. Amino Acid + \_\_\_\_\_ + \_\_\_\_\_ → \_\_\_\_\_
  - b. \_\_\_\_\_ + Fructose → \_\_\_\_\_
  - c. \_\_\_\_\_ + \_\_\_\_\_ → Lactose
  - d. \_\_\_\_\_ + \_\_\_\_\_ → Maltose
  - e. \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ → Lipid (Fat)
  - f. Monomer + \_\_\_\_\_ → \_\_\_\_\_
  - g. \_\_\_\_\_ + \_\_\_\_\_ + 2 Fatty Acids → \_\_\_\_\_
  - h. \_\_\_\_\_ + Monosaccharide + \_\_\_\_\_ → \_\_\_\_\_
  - i. Nucleotide + \_\_\_\_\_ + \_\_\_\_\_ → \_\_\_\_\_
  - j. ADP + P → \_\_\_\_\_
  - k. \_\_\_\_\_ + \_\_\_\_\_ + Pentose Sugar → Nucleotide
6. What are the four bases of DNA? \_\_\_\_\_
7. What is the name of the energy molecule used in animal cells? \_\_\_\_\_
8. When energy is released during a reaction, it is considered what type of reaction?  
\_\_\_\_\_
9. How many different types of bases are there in DNA? \_\_\_\_\_