Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Biological Molecules**

**Main Elements of Biological Molecules**: SPONCH

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **Typical Elements** | **Functions** | **Types and Examples** |
| Carbohydrates | CHO (+ N) | Energy  Storage of Energy  Structure | Sugars   * Monosaccharides (Glucose and Fructose) * Disaccharides (Sucrose, Lactose)   Starch – plant storage  Glycogen – animal storage  Cellulose – plant cell walls – wood and paper  Chitin – cell walls of fungus, exoskeleton of arthropods (Insects, arachnids, crustaceans) |
| Lipids | CHOP | Energy  Storage  Protection  Structure  Communication | Fats  Oils  Phospholipids (cell membranes)  Hormones |
| Proteins | SPONCH | Movement  Structure  Support  Metabolism (Enzymes) | Muscle  Cilia and Flagella  Cytoskeleton  Enzymes |
| Nucleic Acids | PONCH | Control Cell | DNA – Deoxyribonucleic Acid  RNA – Ribonucleic Acid |

Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Biological Molecules**

**Main Elements of Biological Molecules**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **Typical Elements** | **Functions** | **Types and Examples** |
| Carbohydrates |  |  |  |
| LIpids |  |  |  |
| Proteins |  |  |  |
| Nucleic Acids |  |  |  |