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

**Biological Molecules**

**Main Elements of Biological Molecules**: SPONCH

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **Typical Elements** | **Functions** | **Types and Examples** |
| Carbohydrates | CHO (+ N)  | EnergyStorage of Energy Structure | Sugars* Monosaccharides (Glucose and Fructose)
* Disaccharides (Sucrose, Lactose)

Starch – plant storageGlycogen – animal storageCellulose – plant cell walls – wood and paperChitin – cell walls of fungus, exoskeleton of arthropods (Insects, arachnids, crustaceans)  |
| Lipids | CHOP | EnergyStorageProtectionStructureCommunication | FatsOilsPhospholipids (cell membranes)Hormones |
| Proteins | SPONCH | MovementStructureSupport Metabolism (Enzymes) | MuscleCilia and FlagellaCytoskeletonEnzymes |
| Nucleic Acids | PONCH | Control Cell | DNA – Deoxyribonucleic AcidRNA – 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 |  |  |  |