

Macromolecule Function Notes

1. Carbohydrates (Polysaccharides)

*Carbohydrates are for _____!

- Starch** – food storage in plants (stores ATP)
- Glycogen** – food storage in animals (stores ATP)

*They are also for _____

- Cellulose** – in cell walls of plants for support

2. Lipids

*Insoluble in water (lipids are hydrophobic)

*Lipids are used for _____ storage, _____, and _____ (cuticle on plant leaves, blubber)

Saturated Fats - _____ for you

Unsaturated Fats - _____ for you

3. Proteins (Polypeptides)

*the order of the amino acids is important to make different proteins

*The major _____ of our cells and organs

*Used in _____

*Used for _____ like oxygen in the bloodstream

*Providers of _____

*Used to carry out chemical reactions as _____

ENZYMES

*Most _____ are _____

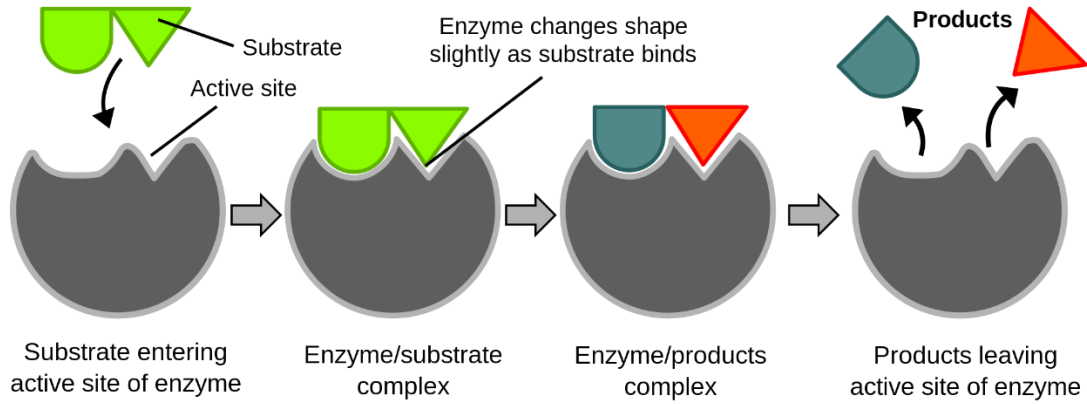
*Enzymes _____ in the body

-the enzyme bonds to a _____ at an _____

-enzyme names typically end in - _____

-enzymes cause the reactions breaking down molecules or building molecules to occur at an extremely _____ and use _____

Enzymes are not destroyed and can be used over and over again for the SAME function.



4. Nucleic Acids

*The order of the nucleotides is important to make different genes

*Stores _____ in cells (DNA, RNA)

| Biomolecule | Examples | Monomer form or Sub Units | Polymer form | How do I recognize it? Draw the molecule | Functions |
|---------------|-------------------|---------------------------|------------------------|---------------------------------------------|-----------|
| Carbohydrates | | | | | |
| | Fats, oils, waxes | | | | |
| | | Amino acids | | | |
| | | | Deoxyribo-nucleic acid | | |