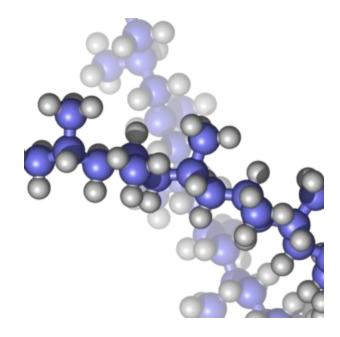
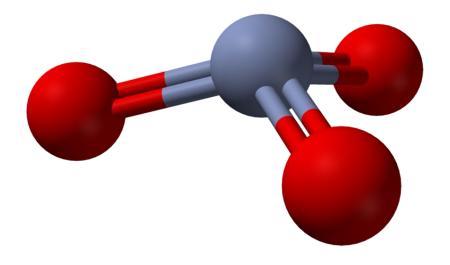
Carbohydrates

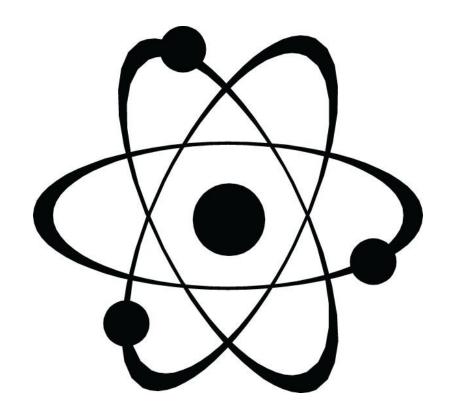
polymer = many units!



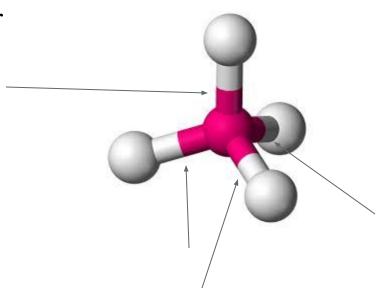
monomer = single unit



atom = smallest piece of matter



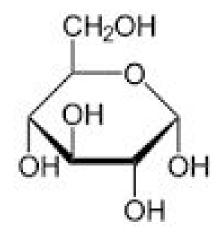
chemical bond = holds atoms together



carbohydrate = nutrition that provides energy



monosaccharide= simplest form of carbohydrate



glucose = a simple sugar (monosaccharide)



starch = multiple units of glucose



cellulose = a very long chain of glucose



Polymer

Polymer: Train

Monomer: ??



Monomer

Polymer: Train

Monomer: Train car



Polymer

Polymer: Pearl Necklace

Monomer: ???



Polymer

Polymer: Pearl Necklace

Monomer: Pearl

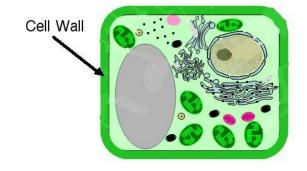


Carbohydrates

 The <u>main source of energy</u> for our bodies.

- The <u>cell wall</u> in plants is made of carbohydrates
 - Allows plants to grow tall
 - This type of carbohydrate is called <u>Cellulose</u>.





Carbohydrates

Where can we find carbohydrates?

- In <u>plant foods</u> (fruits, vegetables, peas, beans)
 - a) <u>SUGAR</u> comes from a plant (candy, cookies)
 - b) <u>FLOUR</u> comes from a plant (pasta, potatoes, bread)
- 2) In <u>animal products</u> (milk)













Carbohydrates are made of....

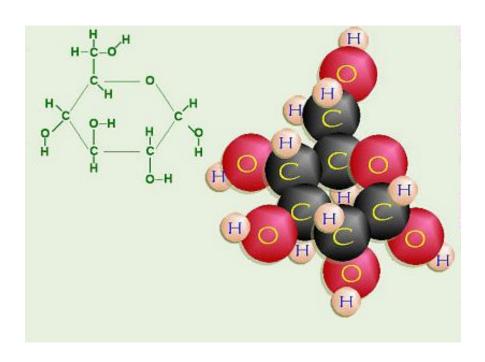
GLUCOSE!

 Glucose is the most common <u>monomer</u> of carbohydrates



Shape of Glucose

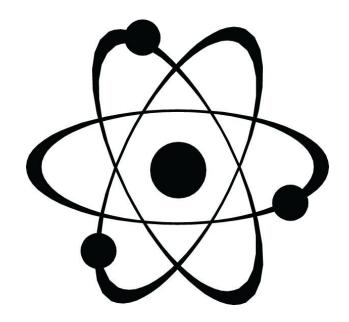
-A hexagonal ring



Atomic Level

On the <u>atomic level</u>, carbohydrates are made of....

....carbon, hydrogen, and oxygen (CHO)



Carbohydrates

Two types:

- 1) Simple
- 2) Complex

Simple Carbohydrates

- Made of 1 or 2 monomers
- Fastest source of energy
- <u>Digested</u> easily
- Taste sweet



Complex Carbohydrates

Polymers are made of many monomers

Taste <u>starchy</u>

