Source: [KBhBIO101Carbs]

1 | Structures of Carbohydrates

Each carbohydrate could be a monomer (6 carbons, simple structure). A carbohydrate monomer (simple sugar) is called a "monosacharide"

- · Two monomers could be chained to build a more complicated structure named Disachoride
- · Monomers could be chained to build "polymers"
- · Complicated polymers is what forms the energy builds of life
- The same atoms, with different bonds and hence a different species, result in "isomers"

The mer-library

Name	Note	Composition
Sucrose	Common Sugar	Disachoride: Glucose + Fructose
Lactose	The thing that's in milk	Disachoride: Glucose + Galactose
Cellose	We can't digest this, but plants	Polysacharides: Glucose + Glucose + Glucose +
	use it	+ Glucose
Glucose	Bulding block of sugar	Monomer
Galactose		Monomer
Fructose	Controvercial	Monomer

Making and Breaking -mers

Creating a polymer ("dehydration")

- · Take monomers
- · Remove water molecules
- · Fill the now-gaping hole with the next monomers

Breaking a polymer ("rehydration")

- Take polymers
- · Add water
- · Get Glucose
- Profit!

Hence, you get thirsty after around 45	mins whenever	you eat lots of	sugar – ye	gotta get that	water to
rehydrate and break down those polyn	ners.				

And now, a note on energy	<i>/</i> .		
[[KBhBIO101Enthalpy]]			

You could add even more monosachrides/disacharides up to get polysacharides (starch, fiber, glycogen)

- We get energy for lots of glucose (whose polysacharide is starch), but we can't get any from cellulose (whose polysacratide is fiber)
- We eat fiber to maintain gut health + poop goodly. Cellulose is hydrophillic, meaning that fiber makes your guts lubricated.
- · Polysaccharides linked together by glycosidic bonds.

NOTE! Whichever carbohydrates you are using, you get energy from breaking its bonds.