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 Lactose	Common Sugar The thing that's in milk	Disachoride: Glucose + Fructose Disachoride: Glucose + Galactose	
Cellose	We can't digest this, but plants use it	Disachoride: Glucose + Glucose Disachoride: Glucose + Glucose	
Glucose Galactose	Bulding block of sugar	Monomer 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 45mins	whenever	you eat lot	s of sugar	— ye	gotta get	that	water	to
rehydrate and break down those polymers.								

And now, a note on energy	/.		
[KBhBlO101Enthalpy]			

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.