

# CARBOHYDRATES

A Level Biology

Monosaccharides are small

fructose and galactose.

monomers. They also include

soluble carbohydrate

AQA Topic I

Carbohydrates contain carbon, hydrogen and oxygen, usually with the general formula C<sub>n</sub>H<sub>2n</sub>O<sub>n</sub>

#### Gucose

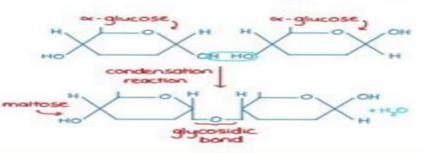
- A monosaccharide with the formula C<sub>2</sub>H<sub>2</sub>O<sub>2</sub>
- A hexase monosaccharide (six carbon atoms) in a ring structure
- Soluble in water → easily transported
- Main energy source for animals and plants
  - chemical bonds store lots of energy
- Two isomers: we glucose and p-glucose H and OH groups on carbon I inverted in p-glucose.

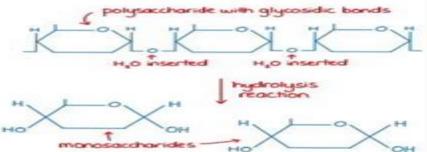


B-glucose H

### Glycosidic bonds and condensation/hydrolysis reactions

- Condensation reaction: two molecules join to form a new chemical bond and a water molecule is eliminated
- Condensation reactions form glycosidic bonds between monosaccharides to create disaccharides and polysaccharides
- Hydrolysis reaction: a water molecule is used and the chemical bond is broken (reverse of a condensation reaction - breaks glycosidic bonds)





### Disaccharides

- Two monosaccharides joined together with a glycosidic bond in a condensation reaction.
- Soluble in water
- Mattose glucose + glucose
- · Sucrose · glucose · fructose
- · Lactose glucose + galactose

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Monosaccharides and disaccharides are sugars.

## CARBOHYDRATES

® Dr Zoë Hugge++



A Level Biology

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### Polysaccharides

- Large polymers of monosaccharides joined with glycosidic bonds
- Starch and glycogen are large energy storage molecules which cannot leave cells

### Starch

- Glucose storage in plants hydrolysed when glucose is needed
- Insoluble in water does not affect the water potential of cells so water is not drawn in by asmosis
- Amylose unbranched or glucose polysaccharide (I.4 glycosidic

### Indine test for starch

non-doce

- Add iodine in potassium iodide solution to sample.
- 2) If starch is present: goes from browny-orange to blue-black:

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**Mike Jess** 

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