

ملخص احياء الكويز الاول ١-٢

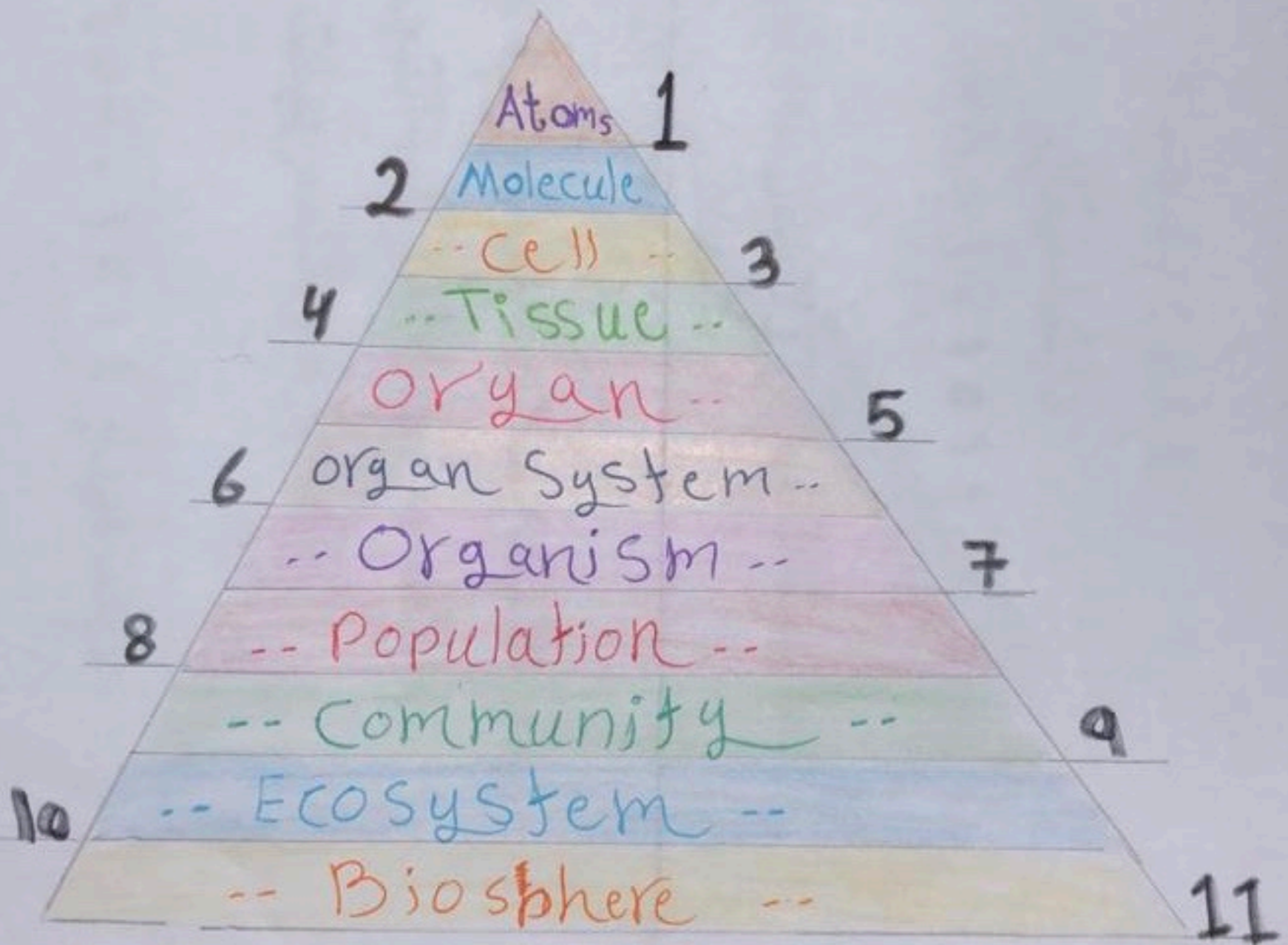
هذي السنينُ ستنقضي وستفرحين
وستضحكين وتسعين
ستودعين الحزن يا روح إصبري
فالله ياروحي يحبُ الصابرين ❤️

Dr.Afnan Alharbi 🌻

دعواتكم



The hierarchy of life :-



Carbohydrates

Formula :-
"CH₂O"

Same number of atoms but different arrangements

الاختلاف يكون في
موقع مجموعة CO

polymers

polymers

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Monosaccharides

(isomers)

- Glucose
- Fructose
- Galactose
- Ribose → (RNA)
- deoxyribose

one unit →
(monomer)

(hydrolysis)
التفاحة بالماء

Disaccharide

- 2 glucose
- Maltose
- glucose + fructose
- Sucrose
- Lactose

زئاع لسليبات
خلارة
ويسمى بسكر
الناكهة

protect the
insects exoskeleton

الهيكل الخارجي للاشرف

in plants

in Animal
liver

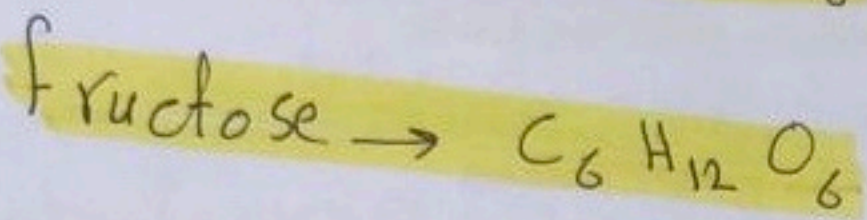
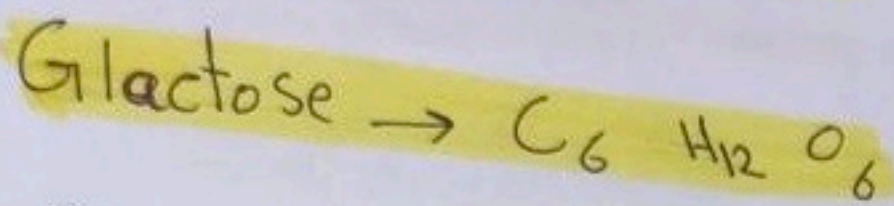
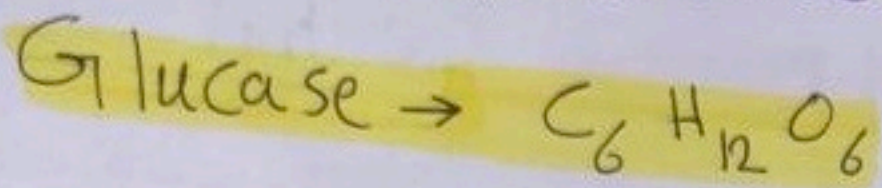
polysaccharide

- * Storing:
 - Starch
 - glycogen
- * protection:
 - Chitin
 - Cellulose

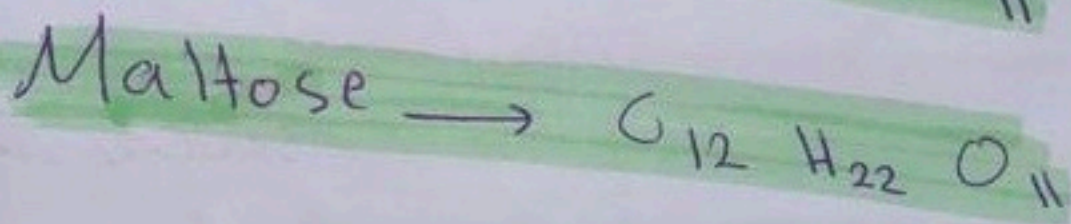
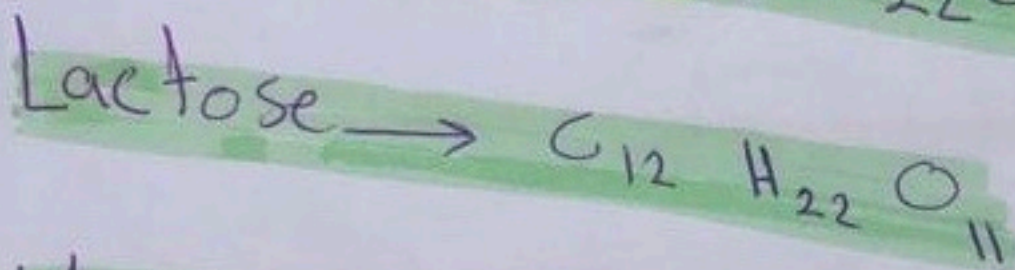
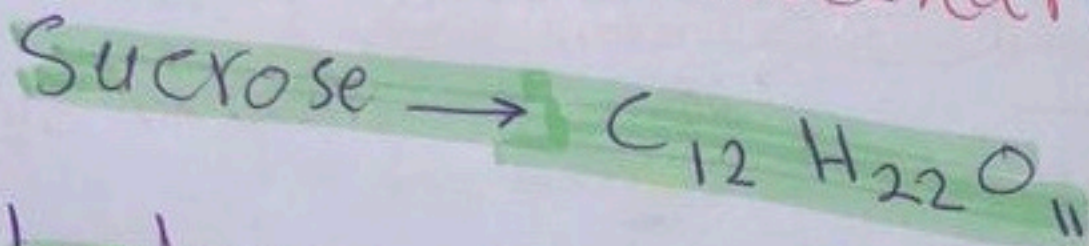
"milk sugar"
glucose + glucose

protect the
cell wall

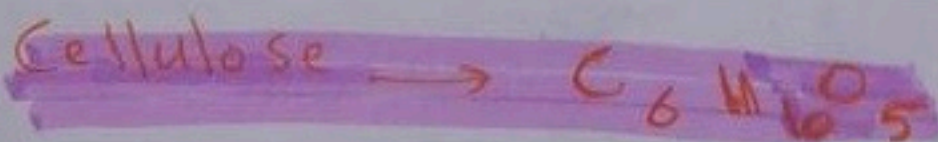
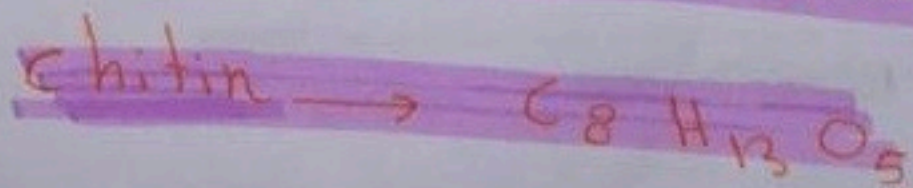
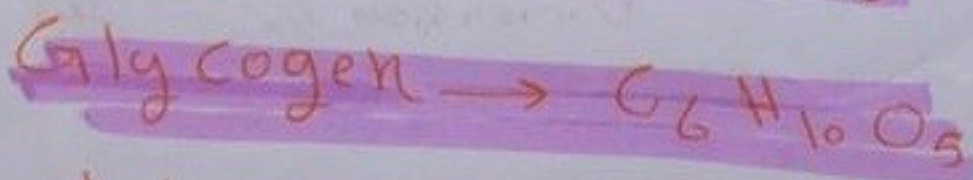
" Monosaccharides "



" Disaccharide "



" polysaccharide "



Carbohydrates \longrightarrow monosaccharide

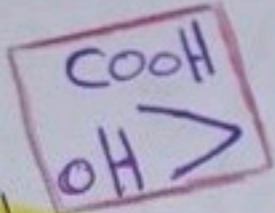
Lipids \longrightarrow Fatty Acids⁽³⁾ + glycerol⁽¹⁾

ATP \longrightarrow ADP

proteins \longrightarrow Amino Acids

Nucleic Acids \longrightarrow nucleotide

Fats are polymers



Lipids ~ Dr. Afnan ~

* skeleton of 4 fused rings carbon

fatty Acids + glycerol

2 fatty Acids + glycerol

True fats

Phospholipids

Steroids

* Triglycerides

Phosphat

Lipids

* Estradiols

* one glycerol linked to 3 fatty Acids

* mix with water

"Hydrophobic"

* sex hormones

"Hydrophilic"

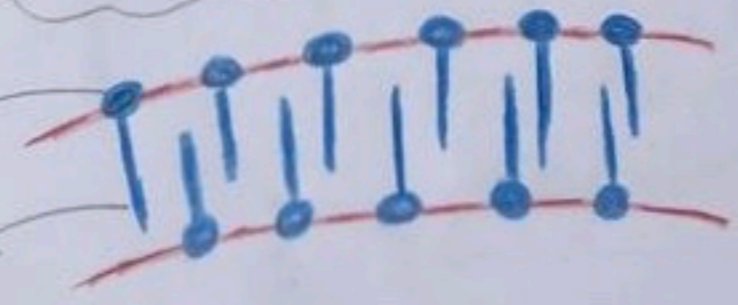
inside of the cell

* cholesterol

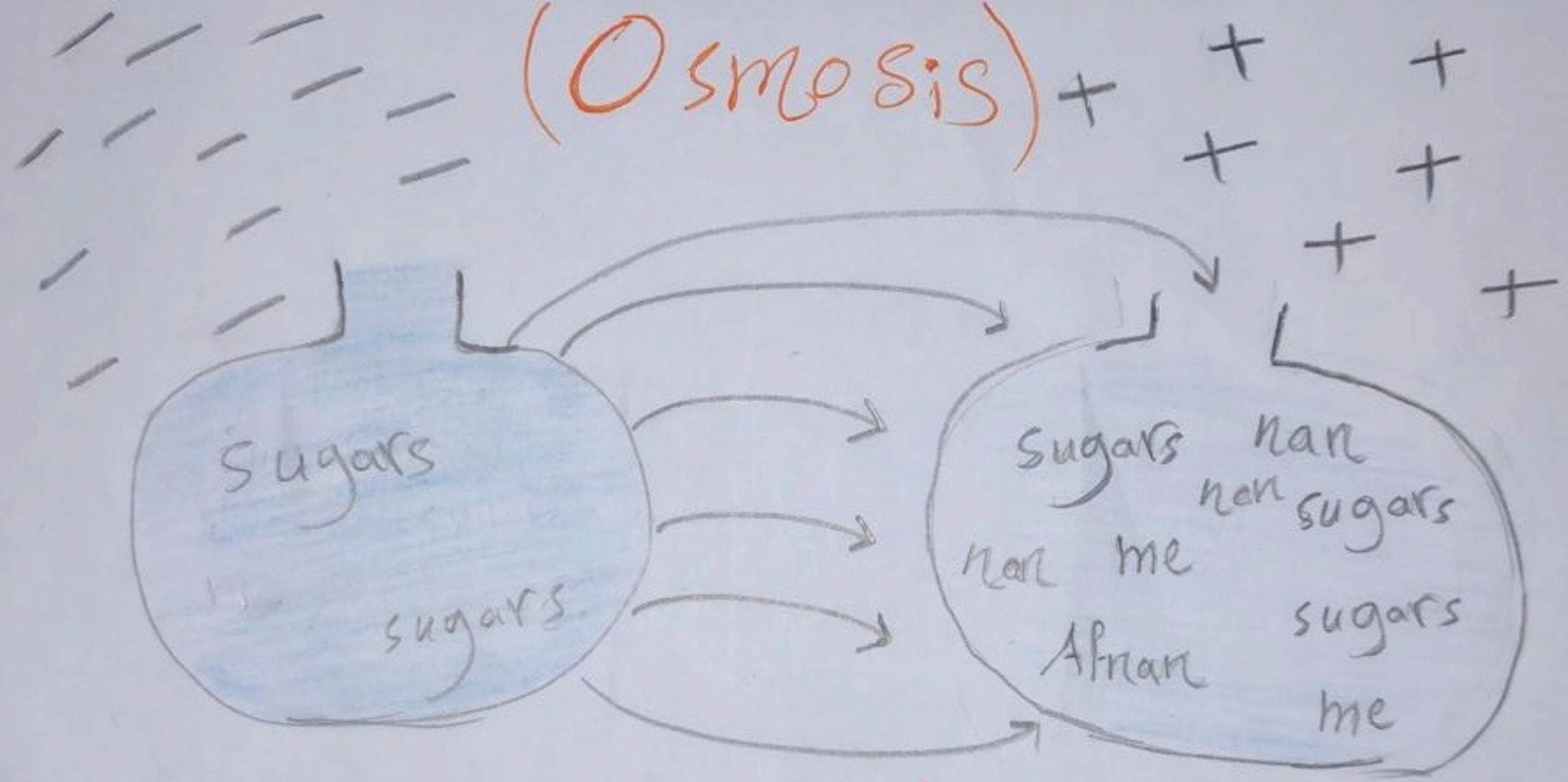
outside of the cell

structural component of animal cell membranes

(Head) phosphat
(tails) lipids



(Osmosis)



Low solute =
high solvent

high solute =
Low solvent