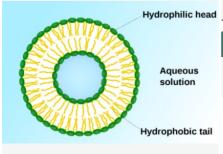


Osmosis/homeostasis/cell membrane transport Cheat Sheet by ava (ava77may) via cheatography.com/132008/cs/27253/

Vesicular Transport

- Active transport process
- Vesicles: small spheres a membrane
- Function in movement of material
- Occurs when larger molecules or big clumps of material need to be transported
- Endocytosis & Exocytosis

Vesicular Transport- image



simple vs facilitated diffusion

Exocytosis

simple diffusion	facilitated diffusion
unassisted	assisted by carrier protiens
occurs through the phospholipid bilayer	occurs through the membrane protiens
small and non polar molecules transported	large and polar molecules transp-

amine directly proportional to the concentration gradient and he

gradient and he
membrane permeability
of the solute molecule

rate of diffusion is

VOCAB WORDS

word	definiton
solute	A substance that is dissolved
	in a solution.
solvent	In a solution, the substance in
	which the solute dissolves.
Solution	A mixture that forms when one
	substance (the solvent)
	dissolves another (the solute).

Selective A property of a plasma permea- membrane that allows some bility substances to cross more easily than others.

Tonicity The ability of a solution to cause a cell to gain or lose water; it depends partly on the concentration of non-penetrating solutes relative to the inside of a cell.

VOCAB WO

What is the relationship between rate diffusion and molecular weight?

What does heating wate do to the rate diffusion of tea?

What enviornment do pla cells work be at and why

Hyponatrem

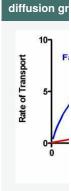
ENDOCYTOSIS VS EXOCYTOSIS

"in" "out" Used for large Used to get rid of molecules, wastes or release clumps of food valuable materials and even whole cells Phagocytosis ex) releasing hormones like dopamine	endocytosis	exocytosis
molecules, wastes or release clumps of food valuable materials and even whole cells Phagocytosis ex) releasing hormones like	"in"	"out"
hormones like	molecules, clumps of food and even whole	wastes or release valuable materials
	Phagocytosis	hormones like

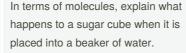
Pinocytosis

Endocytosis

Receptor - Mediated Endocytosis



Diffusion



The sugar cube dissolves in the water, the sugar molecules break apart and dissolve in the water which is a solvent and the sugar cube is the solute.



By **ava** (ava77may) cheatography.com/ava77may/

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orted

rate

depends

the carrier

protein o

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Passive vs Active transport		Tonicity and Osmosis (cont)		Real life scenarios			
active requires energy in th ATP	ne form of	passive does no	t require energy	The water moves to the higher solute concentration inside the cell cell swells and can burst	The water has no net movement and	The water leaves the cell to the higher solute concentration	What type of transport is a room and you not noticing Diffusion is used when s molecules with the scen across the room more a lf the amoeba was placed shrink because the solute is greater than in the amo
occurs AGAINST the tration gradient	e concen-	occurs E tration g	OOWN the concen- radient		nothing happens to the cells.		
from low to high con	ncentration	from hig tration	h to low concen-		no change	cells shrink	
exocytosis		osmosis		plant cells work	human cells worl	rk boot	
sodium-potassium p	oump	facilitate	d diffusion	best	riaman cono won	(DOO!	moves out to the salt wat
phagocytosis		diffusion	l	low osmotic	equal osmotic	high osmotic	ytosis is taking in a larg
endocytosis		aquapor	in	pressure	pressure	pressure	digest inside the cell. O
What is tonicity? Measure of water	pressure ins	side a cell	compared to	What is cell trans	sport?	substances	in diffusion all particles
Measure of water outside the cell.		side a cell	compared to	What is cell trans Cell transport is across the cell What is the most	sport? s the movement of membrane t important feature		in diffusion all particles tration gradients. In osr molecules move across membrane from a dilute
Measure of water outside the cell. Tonicity and Osmo	osis	ide a cell		What is cell trans Cell transport is across the cell What is the most phospholipid me	sport? s the movement of membrane t important feature mbrane?	of the cell's	in diffusion all particles tration gradients. In osr molecules move across
Measure of water outside the cell.			compared to hypertonic The concentration	What is cell trans Cell transport is across the cell What is the most phospholipid me	sport? s the movement of membrane t important feature mbrane? bid bilayer because	of the cell's	in diffusion all particles tration gradients. In osr molecules move across membrane from a dilute
Measure of water outside the cell. Tonicity and Osmonypotonic	osis isotonic	entration ute e cell LL than	hypertonic	What is cell trans Cell transport is across the cell What is the most phospholipid me The phospholip ively permeable Why is it importa maintain the hon So certain thing	sport? s the movement of membrane t important feature mbrane? bid bilayer because	of the cell's it's select- anes help e cell e in our cells	in diffusion all particles tration gradients. In osr molecules move across membrane from a dilute
Measure of water outside the cell. Tonicity and Osmon hypotonic The concentration of the solute outside the cell are LOWER than	isotonic The conce of the solu outside the	entration ute e cell LL than	hypertonic The concentration of the solute outside the cell are HIGHER than	What is cell trans Cell transport is across the cell What is the most phospholipid me The phospholipid ively permeable why is it importa maintain the hon So certain thing can get in and what is the functions.	sport? s the movement of membrane t important feature mbrane? bid bilayer because e. ant that cell membraneostasis within the	of the cell's e it's select- anes help e cell e in our cells eed can.	in diffusion all particles tration gradients. In osr molecules move across membrane from a dilute



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