

osmoregulation Cheat Sheet by katiefocht25 (katiefocht) via cheatography.com/132231/cs/31291/

osmoregulation		kidneys		
about preventing dehydration		nephrons	function excretory unit in kidney	
- for terrest	trial animals			
why does osmoregulation work?			interfaces w/ circ system (bowman's capsule)	
endocrine-mediated regulation of excretory system			collecting ducts pass filtrate to the ureter	
antidiuretic hormone (ADH) or vasopressin (AVP) triggered by increase in		filtrate includes	water, NaCl, ions (H bicarbonate), urea, glucose, amino acids, drugs/poisons	
	osmolarity makes collecting duct of	reabso-	active&passive transport	
	nephrons more permeable to water		water, NaCl, bicarbonate, glucose, amino acids	
	increase water retention		and NaCl occurs along loop of	
variation in urine		henle		
- hypotonic	remove water, retain salt	-solute [] (osmolarity) of interstitial fluid increases towards the center of kidney		
-hyper-	retain water, remove salt	overall filtr	overall filtrate is:	
tonic			highly reduces in volume (water is retained by the body)	
excretory system and osmoregulation excretory system: regulate solute movement			highly reduced in important solute [NaCl]	
between internal fluids and environment			highly concentrated in waste	
filtration	filtering body fluids		solutes (urea)	
reabso- rption	reclaiming water & valuable solutes			



secretion

excretion

filtrate

from the body

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adding nonessential solutes and

wastes from the body fluids to

processed filtrate containing nitrogenous wastes released

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