Bio208 Exam 2 Cheat Sheet by owl.sami via cheatography.com/181480/cs/37734/

Population	growth key terms	Carbon Cycle	Mycorrhizae
Carrying ca	apacity (K)	THE CARBON CYCLE	Tiny, thread-like fungi trap water
Demogr- aphic	Moving between patterns of growth:	Phrase and the relation strength and the strength an	The roots. The fungi's huge
transition	high birth and death rates to high birth	 The large nuclear of sparses grant of the sparses grant of	surface area dramatically
	and low death		minerals that can be
	rates, to low birth and death rates		absorbed. In exchange, they
		How water moves through plants	receive sugars, amino acids, and vitamins from the plant.
Density- depe- ndent	Limited resources limit population growth: food, space,	WATER TRANSPORT Plants use a cohesion-tension mechanism to transport water and diss minerals from the roots and circulate them throughout the plant.	· ·
factors	mates, etc.	1 EVAPORATION Due to low water concentration in the air relative to the water concentration in the leaf, molecules	ABSORBING MINERALS
Density-i- nde- pendent factors	Indiscriminate forces that limit population: floods, earthquakes, fires, and other weather or geology-based calamities.	of water are vaporized, one by one. Water Water Water Molecules Water molecules Stomata TENSION Water molecules form hydrogen bonds with one another, causing the molecules to stick together. So also en molecule exportes, if crastiles tension, pulling on the other water molecules stick to it. Direction Structure of the other water molecules stick to it.	Image: Strategy of the strateg
Expone- ntial growth	r* N	Hydrogen bonds	
Logistic growth	r * N ((K - N) / K)	3 COHESION The cohesion or stickiness of the water molecules insist them logather all the way down to the notecules ore molecule evaporates and puls up the molecule all the way down to the roots. As do not all the way down to the roots.	- Fr
Maximum sustai- nable yield	Half the carrying capacity (K / 2)		
		Weight of the set o	rgetically n to do aves.

pp. 596-598

С

By owl.sami

cheatography.com/owl-sami/

Not published yet. Last updated 16th March, 2023. Page 1 of 4.

Bio208 Exam 2 Cheat Sheet by owl.sami via cheatography.com/181480/cs/37734/

Plant tissue	s and structures	Niches		Energy flow	v (cont)	Ground tissue	
Epidermis Guard cells	Form the stoma, allowing gas exchange	The timing of an originary of an originary of an originary of the originary living control of the originary living contro	magana de da la regione ana la da fan de la regione ana da dere cha la se tota conse tatos ALALEZ DARÍA Martía de la sea da la daría de la daría da da fan de la daría da la daría de la daría da da fan de la daría da la daría da la daría da da da da conse da la daría da la daría da da da da conse da la daría daría da la daría da la daría da la daría da la daría da la daría daría da la daría da la daría da la daría da la daría daría da la daría daría daría da la daría dar	Tertiary consumer	Top carnivores- eat other carnivores (very few in number, most	PCI ISUE CELE PCI IS	
Phloem	Flows sugar down to roots through sieve tubes and distributes water and nutrients to cells in need	Bit of the bit of the output of the outpu		Quarte- rnary consumer (and so on)	energy-expensive) APEX predators- very energy-ex- pensive and seldom exist in typical ecosystems	Q & A plants Which modified structure are all of the following examples of? Potatoes, runner vines	
Xylem	Dead cells that provide main structural support while moving water and nutrients up to the plant			Nitrogen Cy THE NHOBEN CYCLE ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ① ①		Potatoes, runner vines, asparagus spears, daffodil bulbs Stems Stems Why do carnivorous plants thrive in low-nutrient environments? When given more nutrients, its focused on building targer photosynthetic leaves and smaller or no carnivorous structures. When given little to no nutrients, plants	
Cork cells	Create outer bark in trees, providing fire protection to inner living tree.	food sources) Primary Herbivores- eat consumer producers (most abundant consumer, second	No production for the second				
Apical meristems	Think: APEX, at the top (upward, elongating growth occurs)	Secondary consumer	most energy) Carnivores- eat primary	VASCULAR FLANT LEARS - LEARS - LEARS - LEARS - LEARS - LEARS - LEARS - Provide studenting leage - Prov	https://www.commercedure.commerc	focused more on building carnivorous structures.	
Lateral meristems	Think: Lats get swole (lateral layers of cambium growth)		consumers (fewer than primary consumers)	notice through Rooffs Rooffs Rooffs Rooffs Alsoph water Ander the print Ander the print	nativesh hexplast be plant POTTS POT		
Pith Cortex	Inner stem tissue Outer stem tissue						
						p. 584	

By owl.sami

cheatography.com/owl-sami/

Not published yet. Last updated 16th March, 2023. Page 2 of 4.

Bio208 Exam 2 Cheat Sheet by owl.sami via cheatography.com/181480/cs/37734/



С

By owl.sami cheatography.com/owl-sami/

Not published yet. Last updated 16th March, 2023. Page 3 of 4.

Bio208 Exam 2 Cheat Sheet by owl.sami via cheatography.com/181480/cs/37734/

Plants require	Q & A (cont)	Q & A (cont)	
REQUIREMENTS FOR PLANT NUTRITION	Why _z is there so much more	How do ocean currents work?	
SUNLIGHT Provides energy to build molecules of su		Ocean currents warm slowly as they travel through	
WATER Essential to nearly every chemical react within a plant	suġlight provides a lot of energy 2. Warm air holds moğe moisture than cold air,	warmer areas and cool slowly as they travel through cooler climates. The currents travel in large, circular motions warming cooler land with warm currents and cooling warmer land with cool currents.	
AIR Provides a source of carbon dioxide, fro which carbon can be recovered and use the construction of sugar	and causes deserts around		
SOIL Although soil itself is not necessary, it typ contains the minerals essential for buildin cells and assembling them into new tissue	30 degree latitude. ^{cally} ^{se w} Which holds more heat: air or		
Nitrogen Phosphorus Magnesium K S Julfur Calcium Plants technically do not require soil, as hydroponic gardening is	water? we are a series of the		
a possibility. They do require these other nutrients in trace amounts, however: chlorine, iron, boron, manganese, zinc, copper, and molybdenum.	What is the rain shadow effect? Water travels from the ocean over land through warm air. As the air moves up over mountains, the temperature		
Q & A	drops, forcing the moisture out as precipitation. A rain		
Why is it so much colder at the poles than at the equator?	shadow is left when the air drops back down behind the		
The curvature of the Earth	mountain and warms again,		

creating more arid climates

with little annual rainfall.

causes sunlight exposure to spread out over further swaths as it gets closer to the poles.

By owl.sami cheatography.com/owl-sami/ Not published yet. Last updated 16th March, 2023. Page 4 of 4.