## **Quiz: Plant Way of Life**

Fill-in-the-Blank: Complete the following with the appropriate choice:							
		thigmomorphogenesis				solar tracking	
				phototropism	•	leaf mosaics	
	C.	apical dominance	g.	phyllotaxy	k.	etiolation	
	a.	heterophylly	n.	gravitropism			
1.		growth response to touch					
		results in shorter plants with thicker stems					
		common in plants at treeline					
		growth toward a darkened region of the environment					
		bending toward the light					
6.		method used by tropical vines to find a support					
		results in Christmas tree shape of plant					
	prevents top heaviness and light to reach lower leaves & branches						
	leaves on plant with different shapes						
		leaves minimize overlapping one another					
11.	flowers follow movement of sun						
	plant response to the dark						
13.		_ leaf arrangement on a plant					
14.	·	_ branched, tree-like form					
Short A	newo	or.					
		<u>:1</u> at is etiolation?					
2	In w/	hat way(s) is a plant like a buildir	na2				
2.	III VVI	That way(s) is a plant like a building	ıy :				
3.	In w	hat way(s) are non-motile anima	ıls (s	uch as coral) like a plant?			
4.	In w/	hat way(s) can plants be conside	⊃r⊖(	d to forage for food?			
т.	III VVI	nat way(s) can plants be conside		d to lorage for lood:			
5.	Wha	at is the difference between a ph	nysic	cal and biological danger? (	Give	an example of each.	
	14/1					C     C	
6.	wna	at is a type III survivorship curse?	HOV	v does it relate to the 'plant w	vay	of life"?	
7.	Prov	ride examples of how plants defe	end	themselves.			
, .		manipus s. non plants done					
8.	Wh	ny are plants not limited by size bu	ut a	nimals are?			

Structu	ures for Photosynthesis:				
	Explain why leaves are broad AND thin?				
2.	Offer an explanation for why cell walls evolved.				
to pho	s as Photosynthetic Structures: For each of the following structures, identify its function as it relates choroplasts				
2.	cuticle				
3.	guard cell				
4.	palisade layer				
5.	spongy layer				
6.	stoma				
7.	vascular tissue - xylem				
8.	vascular tissue - phloem				
	onal Variations Question: Plants exhibit a variety of modifications of the typical mechanism of ophic nutrition. Define each of the following and give an example of each.				
1.	mycotroph				
2.	holoparasite				
3.	hemiparasite				
4.	autotroph				
5.	heterotrophy				
6.	epiphyte				
<u>Surfac</u>	e/Volume Ratio Question:				
1.	Consider a box that is 3 x 4 x 6 mm. Calculate the surface area, volume, and surface/volume ratio				

Plant Way of Life Quiz 2

2. Compare and contrast the shape of leaves of aquatic plants (hydric), plants growing in a mesic environment such as here in central Minnesota, and cacti (xeric) and relate to s/v ratios.