Plant Adaptations Notes

Plant Hormones _____: A ______ that is produced in one part of an organism & affects _____ part of the _____ individual • Control a plant's: o _____ of growth & development o plant's _____ to environmental conditions. Hormones tell Plants: When to drop their When to start new ______. When to cause ______ o When to cause ______. When to cause - the portion of an organism affected by a particular _____ Types of Hormones 1. Auxins They stimulate cell _____. Contribute to: ____: Location where auxins are produced. - the closer a bud is to the stem's tip, the more it is inhibited, because auxins move out from the ______ - a meristematic area on the side of a stem that gives rise to _____ branches Auxinlike Weed Killers compounds that are toxic to plants, many contain high _____ since auxins inhibit growth 2. Cytokinins Plant hormones that are produced in growing _____ & in developing _____ & • In plants, cytokinins stimulate growth of _____, & cause ____ seeds to 3. Gibberellin substance • Gibberellins produce dramatic ______, particularly in _____ & 4. Ethylene One of the minor components of _______. • In response to ______, fruit _____release small amounts of the hormone

ethylene

Ethylene then stimulates fruits to _______.

Instructions: Name and describe the four major types of plant hormones.

Hormones	1.	2.	3.	4.
What it does?				
Diagram				

<u> Fopi</u>	<u>ic: Tropism</u>	
•	the responses of plants	s to
•	Plant tropisms include	,
•	Each of these responses demonstrates the ab	oility of plants to respond effectively to
	such as	L

Tropisms	What does it do?	Diagram
1.	The response of a plant to	
2.	The response of a plant to a source	
3.	The response of a plant to	

Responsible for the timing ofactivities such a					
a plant pigment that is responsible	e for photoperiodism (absorbs				
	ahant Eu				
day plants - plants that flower when the days areday plants - plants that flower when the days are					
day plants - plants that flower when the days are	5 long. CA,				
<u>nancy</u>					
The period when an & &	0				
stop					
Cold weather approaches:					
o plants turn off photosynthetic pa	•				
 transport materials from to 					
 leaves off from the rest of the plant 					
41					
Abscission	*ha last aff form *ha				
: layer of cells at the	The leat off from the				
plant's system	a aion that the twee is fully				
o Before long, the	, a sign that the tree is fully				
prepared for winter					
rpes of Plants What they are	Diagram				
To take in sufficient, many aqu	uatic plants have				
tissues with largespace	s through which				
oxygen can diffuse					
: Plants that live in the					
Plant adaptations include					
reduced leaves, &	that can store				
water					
Plants that have specialized features for obt	aining				
plants (digest in	sects)				
•grow into tissues o	f their host plant &				
extract water & nutrients, causing ha	extract water & nutrients, causing harm to host				
• Ex:					
Plants that grow on top of other plants					
• Found	Found				
• Ex:					
nical:					
Many plants defend themselves against c	ttack by manufacturing				
that have powerful	on animals				

<u>Hormones</u>				
	auxin- regulates	and produced in the		
2.	cytokinin – regulates			
3.	gibberellins – regulates			
4.				
	isms (responses to environment)			
1.	phototropism – response to			
2.	gravitropism – response to			
3.	thigmotropism – response to			
	Seed growth relies on which 2 tropisms?	&		
<u>Defin</u>	e the following terms:			
•	Abscission –			
	Dormancy –			
	Epiphyte –			
	Xerophyte –			
	Phytochrome –			
•	Photoperiodism –	T. 1		
•	Nutritional specialist –	Example:		
T : ~ 4 2	Transaction and advantage and	4		
List 3	ways desert plants are adapted to a dry clima	ite:		
	1.			
	2. 3.			
	3.			

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