Name:		Date:	Period:
		Unit 12: Interaction of Plant Systems Test Review	
1.	Levels	s of Organization	
		List the levels of organization from smallest to largest (Cells → Organism):	
2.		Structures:	
	a.	What carbohydrate is synthesized in the leaves of plants?	
	b.	What process occurs in the chloroplast that synthesizes sugars?	
	C.	Explain what structures are found in the roots system and in the shoots system i. Roots: ii. Shoots:	
	d.	What is the function of the roots of plants? What is the process by which wate	r enters the roots called?
	e.	Describe the pathway of nutrients from the soil through the reproductive, root the plant:	•
3.		ones and Tropisms	
		What causes tropisms?	
	b.	What happens to seeds when they are in favorable conditions? How is this a w their environment?	ay plants respond to
	C.	Explain the following tropisms: i. Thigmotropism	
		iii. Hydrotropism	
		iv. Geotropism	
4.	-	piration & Properties of Water	Luchdura
		n this transpiration review video: https://www.youtube.com/watch?v=mc9gUm	
	a.	What is transpiration? How does this occur? What plant structures are involved	
		transpiration?	
	h	What are the cells currenading the stempts of a plant celled?	
	b. c.		
		Thow does a storia respond to regulate the rate of transpiration:	
	d.	What gasses enter & exit through stomata? i. Enter:	
	e.	ii. Exit:	
	f.	Which two properties of water work together to allow to climb narrow tubes(ca	apillary action?

5.	Vascular Plants
	a. The vascular system of a plant is made of and What does each of
	these structures transport in the plant, and in what direction do they deliver their substance (upwards,
	downwards, both directions)? i. Xylem
	Substance transported:
	•
	2. Direction transported:
	ii. Phloem
	Substance transported:
	2. Direction transported:
	b. To live on land, what resource did plants have to adapt to conserve?
6.	Plant Reproduction – Label the parts of the angiosperm below
	a
	D b
	E c.
	c d.
	B H e
	A g.
	<u> </u>
	j
	k. Which letter produces pollen?
	I. Pollen grains from the attach to transferred by a pollinator.m. Which letters are male structures?
	n. Which letters are finale structures?
7.	Kingdom Plantae
	 a. Circle the features of organisms in Kingdom Plantae: Prokaryotic Eukaryotic Unicellular Multicellular Autotrophic Heterotrophic
	Cell walls made of Cellulose No cell wall Contain central vacuole DNA No cell wall
	central made of central man central vacable 2101 No central
	b. Explain the benefit of the following plant adaptations:
	i. Stomata that only open at night:
	ii. Thorny stems:
	iii. Thick, waxy cuticle on stems:
	iv. Venus fly trap catching insects:
	v. Colorful petals in angiosperms: