Main Topic: Levels of Organization in Cells							
Learning Objectives/Outcomes: recognize levels of organization in plants and animals, including cells, tissues, organs, organ systems, and							
organisms.			1 .	I			
Topic 1:	Topic 2:	Topic 3:	Topic 4:	Topic 5:			
Cell Specialization	Tissues	Organs	Organ Systems	Organisms			
<u>Ideas</u>	<u>Ideas</u>	<u>Ideas</u>	Ideas	Ideas			
What dictates cell structure?	What forms a tissue?	What forms an organ?	What forms an organ system?	What forms an organism?			
	Different types of cells	Two or more different		Organ systems working			
Cell function will dictate	performing specialized	types of tissue working	Organs working together	together to form a fully			
cell structure including	functions form a tissue	together to perform a	to perform certain	functional living being that			
organelle types,		specific function	functions form organ	can thrive in a particular			
numbers, and cell shape			systems.	environment			
What is the function of	List 4 types of tissue and	Give an example of an	What are the six organ	Define organism.			
a neuron?	their function	organ and its function.	systems and its function?				
The neuron is	Nervous: sensory input,	Lungs perform the process	Skeletal: support,	A complex structure of			
specialized to send	integration, and motor	of gas exchange. Oxygen	movement, protection,	interdependent and			
messages very quickly	response	comes in and enters the	blood cell production	subordinate elements that			
		blood stream and carbon	Muscular: movement,	create a life form			
	Muscle: the fibers	dioxide exits as a waste	stabilization of joints, and				
Explain how two cells	contract and relax to	product of metabolism	generate heat				
can have the same DNA	provide movement		Digestive: digestion and				
but have a different structure and function.	Connective: bind other		absorption of nutrients				
structure and function.	organs together, hold		Respiratory: process of gas exchange				
DNA codes for specific	organs in place, cushion		Nervous: sensory input,				
proteins which	them, and fill space.		integration, and motor				
determine the cell's			response				
structure and function.	Epithelial: secretion,		Circulatory: transport				
	selective absorption,		blood and oxygen				
	protection, transcellular		throughout the body				
	transport, and sensing						

Key Vocabulary	Key Vocabulary	Key Vocabulary	Key Vocabulary	Key Vocabulary
cell	tissue	organ	organ system	organism
neuron	nervous tissue		skeletal system	
	muscle tissue		muscular system	
	connective tissue		digestive system	
	epithelial tissue		respiratory system	
			nervous system	
			circulatory system	
Pictures	Pictures	<u>Pictures</u>	Pictures	<u>Pictures</u>
Neuron (brain)	Image: second		Windowski Market Organ System   Windowski Windowski   Windowski Windowski   Windowski Windowski   Windowski Windowski   Windowski Windowski   Windowski Windowski   Windowski Windowski	
Muscle cells	Contract rate Contract rate Contra			