Ch.2 Diversity: Introduction to Multicellular Organisms: Multicellular organisms meet their needs in different ways.

Learning Goal: Compare & contrast how plants and animals get their energy.

Multicellular organisms have cells that are specialized – pg.43					
Different jobs are done by dif	ferent cells	cells have a specific function.			
A blood cell carries	•	_ cells send and receive a signal.			
Cells are also in	n ways to enable them to				
Levels of organization – pg. 44					
Cells of the same type are org	anized into	·			
They are a group of	that work t	ogether to perform a single,			
Ex: a muscle, such as the heart, job is to pump blood through the body.					
Structures made up of	t	issues and perform a particular are called			
Organ Systems and the Organism – pg. 45					
Why does a multicellular organism have several organ systems?					
Name 3 organ systems.					
Multicellular organisms are adapted to live in different environments – pg. 46-47					
What is an adaptation?					
How do adaptations arise?					

Give an example of an adaptation an animal can have to cold climates					
The is a desert fox t	hat has very large	for this adaptation.			
The fox has very small ears and thick fur.					
The fox ears are average in size and its fur blends well with its environment.					
Foxes are hunters that feed on small animals. How might the coat color of each fox contribute to its survival?					
Sexual Reproduction leads to diversity – pg. 48-49					
Sexual reproduction occurs throug	parents.				
The result, the offspring will have more					
Two different cellular are involved in reproduction.					
The first is:					
is a cellular process in sexual reproduction that allows the and egg cells to duplicate its material and then divide.					
Fertilization is the second and occurs when the cell bonds with the cell.					
A egg is a single with the DNA of both					
Once the cell is fertilized it and continues dividing specializing forming different, organs, etc.					
→					
sperm	cell egg cell	two copies of DNA in cell after fertilization			
is a form of	roproduction I		ism grows off or		
is a form of reproduction. In budding, a second organism grows off, or buds from another.					
Organism can reproduce more ofte	n, but ar	e limited with	diversity.		