

CELLS AND ORGANISMS STUDY GUIDE

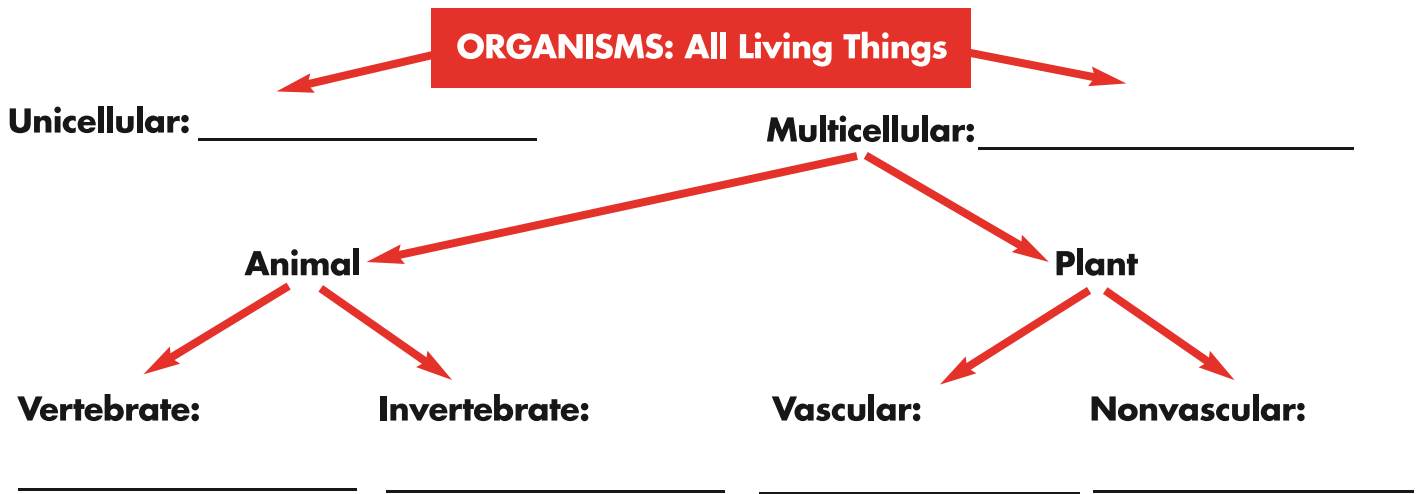
Living things are made of **cells**. Cells carry out all life processes.

Complete the chart below of the essential structures of plant and animal cells.

Essential Cell Structure	What is its function?	Plant cell/animal cell or both
Nucleus		
Cell wall		
Cell membrane		
Vacuole		
Chloroplasts		
Cytoplasm		

Scientists observe cells by using a **microscope**.

Complete the organism classification key by filling in the definition of each term:



Revisit the classification key you completed. Write two examples under each of these terms:

Vertebrate	Invertebrate	Vascular	Nonvascular
_____	_____	_____	_____
_____	_____	_____	_____

What adaptation mentioned in the textbook is each animal below using to help it survive in its environment?

1. A brown lizard sits still on a brown rock. _____
2. Virginia Bluebells are not active in fall or early winter. _____
3. The Ash Borer moth is brightly colored like a wasp, but it is not able to sting like a wasp. _____
4. Because a chipmunk's heart rate slows and its body temperature drops during a given time in the winter, it uses very little energy and can survive with little food supply. _____