Physiologist's Name:	

Class:

Date:

Mrs. Bouchard 8th Grade Science

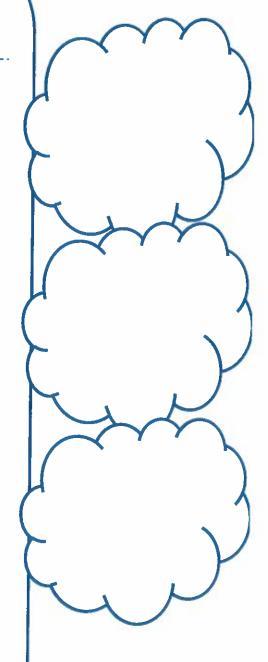
Reading Activity: The Organization of the Human Body

DIRECTIONS: Read below with your partner, switching who is the reader and who is the summarizer each paragraph. The cloud should contain the MAIN IDEA of each paragraph.

Imagine you're at lunch. Your nose smells pizza. Your legs move over to where hot lunch is being served. You have to balance the food and your milk in your hands, look around for a free seat, and then sit down. This may seem simple, many different parts of your body have to work together to make all of that happen. To make sure your body can work correctly, even when it does many things at once, your body must be carefully organized.

The smallest unit of our organization, our smallest part, is the *cell*. The cell is the building block of all living things, but you probably remembered that! Each human body is made up of over 100 trillion cells that have different structures and different functions. We have blood cells that carry oxygen to our muscles, and nerve cells that carry electrical impulses from our brains to the rest of our bodies. If the whole body is like a city, a cell is just one simple brick.

The next largest unit of organization in your body is a *tissue*. No, that's not the same thing as what you blow your nose with. A tissue is a group of similar cells working together. If the whole body is a city, and a cell is just one brick, a tissue is one step bigger – a house.





Nervous tissue, one of the four types of tissue in the human body.

Work Hard. Get Smart.

There are four main types of tissues. Muscle tissue (which makes up muscles) can shorten to make your body move. Nervous tissue carries electrical signals between the brain and the body to control the body. Connective tissue, such as bone, blood and fat, connects the various parts of the body. And epithelial tissue, such as skin, covers the surfaces of your body.

The next largest unit of organization in your body is an *organ*. You've probably heard of organs before. Your heart, stomach, brain and lungs are all organs. Organs form when different types of tissue come together to perform a specific job for the body. If a cell is a brick, and a tissue is a house, an organ is like a city block.

An organ's job is more complicated than a tissue's job, which is why it takes more than one kind of tissue. For example, the heart is the organ responsible for pumping oxygen-rich blood to the rest of your body. To do this, it needs all four kinds of tissue. Muscle tissue helps the heart pump blood through your body, and the nervous tissue receives signals from the brain about when to pump.

The largest level of organization smaller than your whole body is an organ system. Organ systems are groups of organs that work together to perform BIG jobs for your body. If an organ is like a city block, an organ system is like an entire neighborhood, like Back Bay.

The circulatory (sir-cue-la-tore-ee) system is a good example. Your circulatory system performs a BiG job for the body — it transports materials we need, like food and oxygen, throughout our bodies. To do this, the system uses the heart to pump blood, and your blood vessels (for example, your veins) to carry the blood all over. We'll spend most of this unit learning all about organ systems!

Turn To The Next Page →

A map of the circulatory system, which transports materials around your body.

Level 1: Graphic Organizer

· · · · · · · · · · · · · · · · · · ·	r partner to fill out the graphic organizer belo tart with the middle oval of each level, then the graphic file for the second of the second organizer below.	
If the body is a city, what would this be?	The smallest level of organization within the human body is a	Two examples of this are: cells cells
If the body is a city, what would this be?	The next-largest level of organization within the human body is a	Four types of this are: tissue tissue tissue tissue
If the body is a city, what would this be?	The next-largest level of organization within the human body is an	Four examples of this are:
If the body is a city, what would this be?	The largest level of organization within the human body is an	An example of this is the:

Level 2: Which Level?

	, ,		e questions below. ⁻ ell, tissue, organ, o	
1.What are the fo	our levels of organ	ization in our bo	odies, from smallest	to largest?
(smallest)	>	>	>	(largest)
	organization is ma			ing together to perform a
			erent organs workin	g together to perform a
4.Which level of	organization is ma	nde of similar ce	lls working together	?
For example, ma	ny muscle cells wo	orking together.		
5.Your heart, live	er and lungs are m	ade of many typ	es of tissues workin	g together.
That makes your	heart, liver and lu	ıngs examples o	f what?	
6.The picture to	the right shows vo	ou several organ	s working together,	including
your lungs, bron	-	rindpipe). This π	neans this picture sh	
7.Fill in the Blank	k: The picture to tl	ne right shows y	ou many skin cells	
working togethe	r to form epithelia	al		> 34/10/2015
	the human body is eart or your circula			
E	xplain Your Answe	r:		
What does this o	: Why is the body careful organizatio c toward the <i>begin</i>	n help the body	accomplish?	evels up to large levels?
				CHECK THE LEVEL
		1,72 & 2		2 ANSWER KEY!