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STUDENT HANDOUTS

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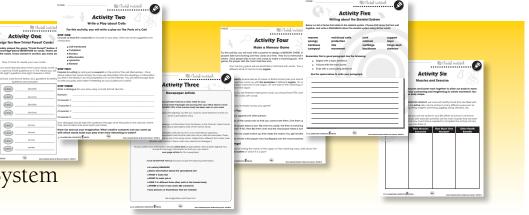
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1. Use your knowledge from this reading, as well as the previous reading to complete this activity. <u>Cut out</u> and <u>sort</u> the descriptions at the bottom of the page. Glue them in the correct "cell" that matches each label.



3. Why is the idea of a factory a good one to understand cell functions?

4. Here are some new words from the reading. Write each word beside its meaning.

	cytoplasm nu	Jeus m	itochondria
Cell Part Des A I surround the outside of the cell	B. This is where all the work	C We help keep the cell clean	D I float in the cytoplasm
E I float in the cytoplasm, too!	FWow! It's crowded In here! I float in the cytoplasm, too!	G I'm like the factory wall – I let things in and keep things out	H I help turn the food you eat into what the cell needs to survive
I This is where the DNA is stored	J I am made of water and protein	K I'm like the manager of the cell – I am in charge of everything!	L This is the liquid inside the cell

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- Use a dictionary to help. DNA protein ereditary elements environment a) All of the things and conditions in the surroundings offspring (children) – eye color is an b) Passing from parents to examp of this c) Sim to "things", ost basic parts that make up net material insic the nucleus that stores hereditary d) information from food that is necessary for human life to aterial exist Extension & Application
- Look at the cell diagram on the next page. Use the Internet or books from the library to find a diagram like this one. Use the information you find to label the parts of the cell on the diagram.
- 6. There are more parts in a cell than the ones discussed in the reading. These include: ribosomes, golgi bodies and endoplasmic reticulum. Do some research to find important facts about at least one of these cell structures. Where are they located in the cell? What do they look like? What important job do they do? Include a labeled diagram or illustration with the cell parts in it.



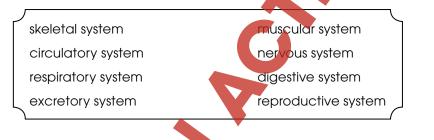


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Hands-On Activity # 2 Create a Human Body Organ System Booklet

We have learned that the human body has EIGHT major organ systems. Each system is made up of important ORGANS, and these organs work together as a SYSTEM. All of these organ systems have important jobs to do to keep our body healthy and alive.

Your task is to create a booklet with important facts about each of the organ systems:



YOUR BOOKLET SHOULD INCLUDE:

- a cover page with the title of your book
- a Table of Contents page
- at least one page for each organ system

COLLECTING YOUR INFORMATION:

Begin by collecting important **facts** about each system. You may use the reading passages, the Internet, or other resource materials to find your information. For each organ system, try to include the following:

- 1. Major organs that make up the system
- 2. The main jobs of the organ system (what it does)
- 3. A **picture** that shows what the system looks like (be sure to label all the parts!)

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er interesting facts that you find

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NAME:

Part C

Comprehension Quiz



Answer each question in complete sentences.

1. What are **specialized cells?** Are they found in unicellular or multicellular organisms? Give an example of an organism that is made of specialized cells.

2. Name two parts of a cell. Describe the function of each part in the cell.

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Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

(17)

Skeletal Runner

.

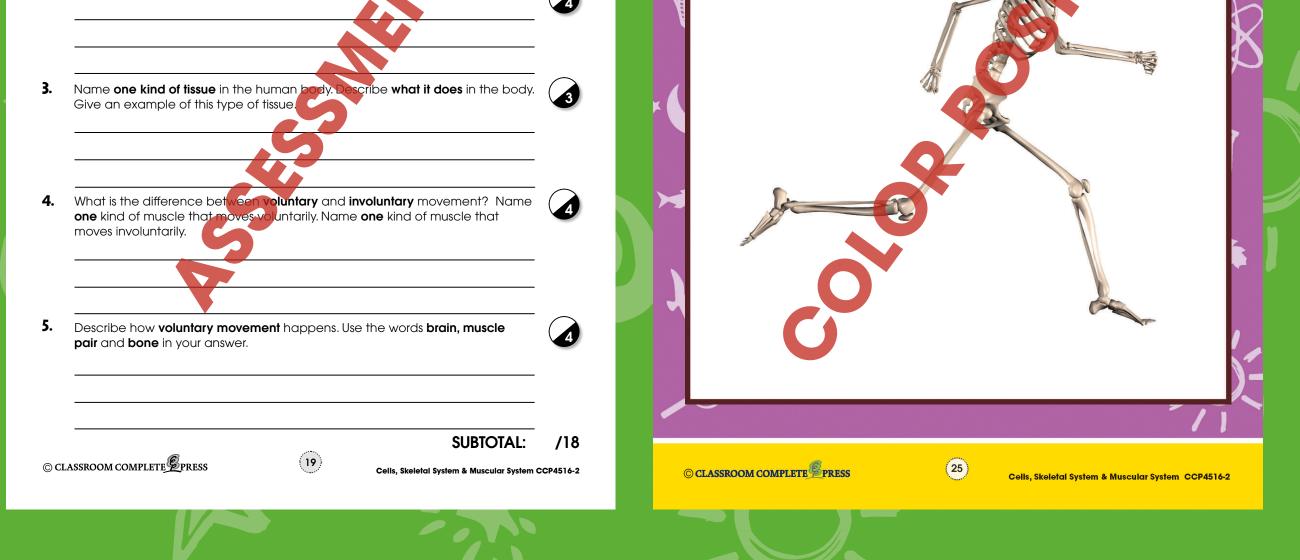
multicellular tissue calcium specialized unicellular marrow nucleus organ compact cytoplasm muscle cartilage mitochondria nerve tendon lysosomes skeletal contract complex cardiac socket joint involuntary hinge fiber striated bundled

rotation

А	Ζ	Х	S	М	С	Т	С	А	Ρ	M	0	Ĉ	S	W	Е	U
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Т	В	P	Y	Е	S	R	0	Т	А	Т	Ι	0	Ν	Μ	D	Н
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T	D	С	Н	Е	Ι	R	0	Т	Υ	Т	Ι	0	Ν	Y	F	0
D	S	Ζ	Х	С	Х	S	Т	G	В	Ν	Ν	0	D	Ν	Е	Т
U	S	D	F	Т	Н	U	S	D	Υ	А	W	E	R	Q	F	Ι
U	L	Т	Ι	С	Е	L	L	U	L	А	R	А	Υ	G	С	М
Е	L	D	Ν	U	В	D	S	Х	Е	Υ	Н	Ν	М	Κ	U	Ρ
E	L	D	Ν	U	В	D	S	Х	E	Y	Н	N	Μ	K	U	Р

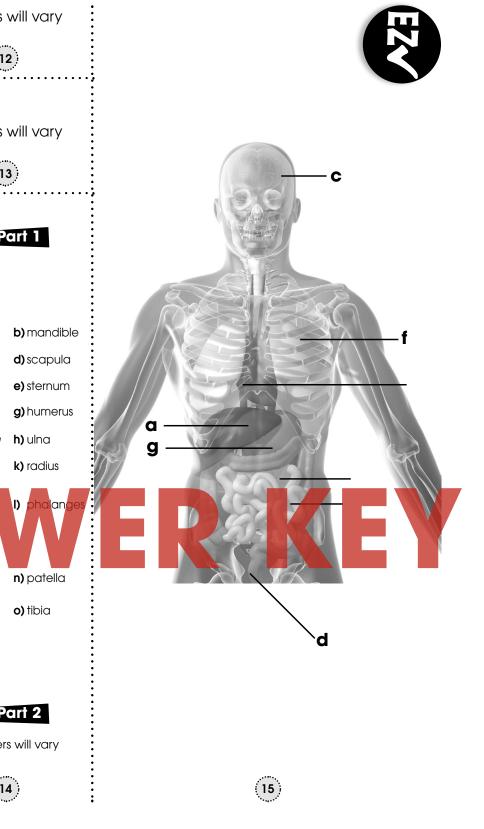
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	After You Read	••••	ME:	tions		
	e of the shapes ce					
				11	2.	Answers w
3. Why is the ide	ea of a factory a go	od one to u	nderstand cell fi	unctions?	Thin and long, round, rectangular	12
					3.	Answers w
4. Here are some Use a dictione	e new words from t ary to help.	he reading.	Write each word	l beside its meani	ng.	work
DNA	environment	protein	hereditary	elements	4.	
	a) All of the th	ings and cor	nditions in the surr	oundings		a) skull c) clavicle b
	b) Passing from example of	•	offspring (childrer	n) – eye color is an	onment	
	c) Similar to "tl something	nings"; the m	ost basic parts th	nat make up	b) hereditary	f) ribs g i) backbone h
	C	al inside the n	nucleus that store	s hereditary	c) elements	j) pelvis k
EAS	exist	we get from 1	food that is neces	ssary for human life	d) DNA e) protein	m) femur
Extension &	Application					p) fibula o
	II diagram on the n am like this one. Use				e 5.	
6. There are more ribosomes, go important fact the cell? What	e parts in a cell than olgi bodies and end is about at least on do they look like? W stration with the cell	loplasmic re of these ce /hat importa	eticulum. Do some Il structures. Whe	e research to find re are they located	e) Mitochondria 6. Answers will very	
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