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STUDENT HANDOUTS

• Reading Comprehension

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1. Cells – The Building Blocks of Life
2. Cell Structures & Functions
3. Cells, Tissues, Organs & Systems
4. What Are Organs & Organ Systems?
5. The Skeletal System – Bones
6. The Skeletal System – Joints & Cartilage
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8. The Muscular System – Movement.

- MINI POSTERS 21

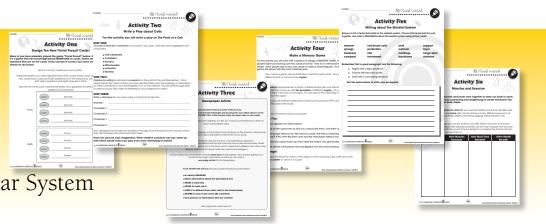
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NAME:

The Muscular System - Muscles

1. Match the word on the left to the definition on the right. You may use a dictionary to help.

bundled	A	This means slender pieces, like threads
cardiac	B	A group of things gathered close together are
involuntary	C	This is another word for striped.
striated	D	A word used to describe things related to the heart
fiber	E	Something that happens without thinking about it or choosing it to happen

2. The muscular system has two main jobs. Can you guess what they are? Think about how your body works and what you already know about muscles. Then <u>underline</u> your two guesses from the list below.

muscles help us think faster muscles give our body shape muscles help us move

muscles help us sleep better muscles give us better hearing

3. In the chart below list all the things your muscles have helped you to do today. Try to list at least ten different things.

	Thanks, muscles! Without you I wouldn't have been able to do any of
	these things today!
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

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After You Read

NAME: _

The Muscular System - Muscles

Cir	rcle	Ò	if th	e statement is TRUE or if it is FALSE.
	T	F	a)	The human body has over 1000 muscles.
	T	F	b)	Muscles help us move.
	T	F	c)	Cardiac muscle is voluntary muscle.
	T	F	d)	Every human muscle is made of one large muscle fiber.
	T	F	e)	If something is "involuntary" it means we cannot control it.
	T	F	f)	The human body has three important muscles on top of the skin.
	T	F	g)	Muscles give our body shape.
	T	F	h)	Striated muscles look like stripes.
	T	F	i)	Cardiac muscles are involuntary muscles that help pump our blood.

2. Fill in each blank with a word from the list. There will be two words left over.

bundled	shape	three	cells	run	two	fibers			
breathe	breathe move elastic muscles								
Muscles have	a	·	os. They give ou	•	b or	_ and			
е	g								
string. These a	re called mus	cle h	These	fibers are	i				
together to cr	eate muscles								

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NAME: _





The Muscular System - Muscles

here are over 600 muscles in the human body. Together they make up the muscular

Just like your skeleton, your muscles are below the skin. This means that you can only see the outline of muscles and feel them change shape when they move. Try this - hold your arm up like a weightlifter and tighten your fist. Can you feel the muscles in your upper arm get bigger and harder? Doing this gives you a clue about the two main jobs of muscles:

1. Muscles give our body shape; 2. Muscles help **us move.** Muscles help us do almost everything

- from running on the playground, to pulling the blankets up at night, to breathing in and



All muscles in the body are made of cells that are the elastic string. These cells are called muscle fibers. Muscle fibers are bundled together in groups to form muscles. The number and length of the fibers depend on the size of the muscle.

Three Types of Muscle

There are three types of muscle in the human body. The chart below tells you about them.

Muscle Type	What It Looks Like	What It Does			
Skeletal	Striated (striped)	Voluntary (we can	Attached to our bones,		
		control the movement)	they allow the bones to		
			move		
Smooth	Smooth	Involuntary (we cannot	Controls movement		
		control the movement)	inside our body		
Cardiac	Striated (striped)	Involuntary (we cannot	Allows our heart to		
		control the movement)	pump blood		

What surprising thing have you learned about muscles? Why were you surprised?

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After You Read 🌪



The Muscular System - Muscles

4.	What do skeletal and cardiac muscles look lik	e?

5. What muscle do you think is the most important and why do you think so?

Extension and Application

6. Below is a list of words from the reading. Choose five words that link well together. Then write a **short story** about the day in the life of a muscle. Be imaginative!



- 7. Using the Internet or books from the library, research six different foods that help build healthy muscles. Use these foods to create a **menu** for one day of muscle-healthy eating.
- 8. Multiple Sclerosis is a serious muscle disease. Research important facts about this disease in an encyclopedia or on the Internet. Write a three-paragraph report on the information you find. Try to find out when it was discovered. List its symptoms and treatments.





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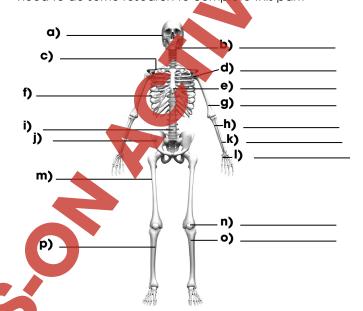
Invent an Alien Skeleton!

This activity has two parts. For the first part, you will label the bones in the human skeleton. For the second part, you will use what you have learned to invent your own extra-terrestrial skeleton.

Part 1

Use the words in the list to **label** the bones on the skeleton. You may need to do some research to complete this part.

ribs patella backbone pelvis femur tibia scapula sternum humerus fibula clavicle radius phalanges ulna mandible



Part 2

Now, it is time to draw your own alien skeleton! You must use at least ten different skeleton parts from the diagram above. You may use the parts more than once if you like. Be as imaginative as you can! Draw your skeleton on a separate sheet of paper. Above your drawing, copy and complete the following: drawing, copy and c

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I have skulls,	femurs,	tibias, and	ribs.
My name is	and my favor	ite food is	
Hellot, I am an exirc	a-terrestrial from the	planet	 -





Comprehension Quiz



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Part A

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Circle **1** if the statement is TRUE or **1** if it is FALSE.

- T F 1) The cell nucleus contains hereditary information called DNA.
- 2) In the human body, organs are made of groups of tissue that have a specific job.
- **3)** Organ systems are simpler than organs.
- T 4) Three of the major organ systems in the human body are the respiratory system, skeletal system and brain system.
- 5) In the circulatory system, the heart pumps blood through our nerves.
- 6) The main jobs of the skeletal system is to give protection and support.
- 7) The ends of our bones are covered by a rubbery material called
- 8) Skeletal muscles control the digestion of food in our stomach.

Part B On the diagram below, label the three layers of bone. Use the words in the list. bone marrow compact bone spongy bone

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SUBTOTAL:

NAME:



Word Search

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

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

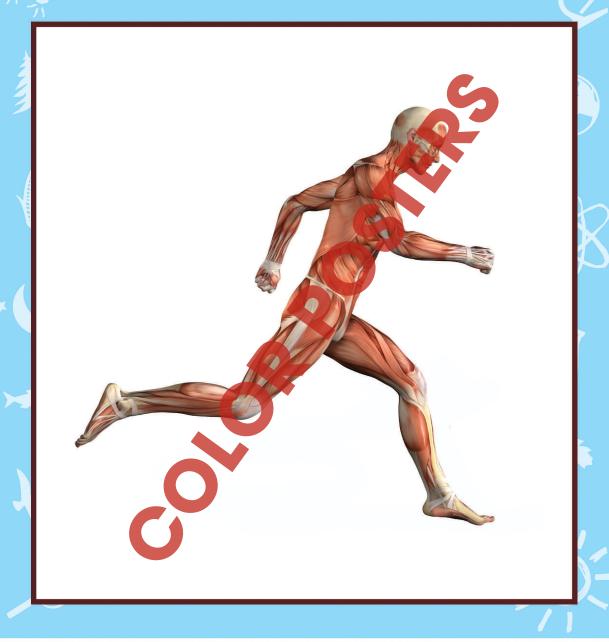
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W	S	D	R		Е	D	S	U	Е	L	С	U	Ν	Е	-	J	В
S	Υ	R	D	Н	Z	М	J	С	0	7	Н	R	Α	С	T	K	U
С	0	R	Т	G	В	Υ	Н	Ζ	Ş		+	K	Е		Ρ	Ш	М
W	Α	С	Х	D	S	K	Е		Ε	F	Α	L	D	Α	R	F	Х
С	T	L	K	Υ	Н	Ν	U	J	M	K	L	Е	D	L	T	J	K
В	G	Т	С	Е	Υ	Н	N	Ų	K	U	0	Р	Н	I	Ν	G	Е
Е	D	Т	Α	ı	T	Y	H	N	L		U	J	М	Z	_	K	Р
W	S	T	R	Υ	U	H	N	Α	М	Ν	Е	R	٧	Е	K	G	В
Α	Z	D	T	F	G	М	R	Н	J	٧	T	Н	U	D	Υ	Н	Α
U	J	0	1	Ŋ		Υ	L	Υ	S	0	S	0	М	Е	S	G	1
V	F	R	L	A	G	В	Ν	М	J	L	K	Н	F	1	В	Е	R
С	U	J	A	G	7	K	L	М	В	U	Ν	D	L	Е	D	С	D
Υ	0	Н'	G	R	\$	T	R	1	Α	T	Е	D	М	J	K	U	N
T	Q	M	E	0	S	T	R	1	Α	T	Ε	D	U	С	V	В	0
0	T	В	P	Υ	Е	S	R	0	T	Α	T	ı	0	Ν	М	D	Н
Р	D	C	7	L	T	Υ	J	U	K	R	Ν	K	U	T	G	Н	С
L	1	B	С	Н	Е	ı	R	0	T	Υ	T	ı	0	Ν	Υ	F	0
A	D	S	Z	Х	С	Χ	S	T	G	В	Ν	Ν	0	D	Ν	Е	T
S	ح	S	D	F	T	Н	U	S	D	Υ	Α	W	Е	R	Q	F	I
М	U	L	T	1	С	Е	L	L	U	L	Α	R	Α	Υ	G	С	М
D	Е	L	D	N	U	В	D	S	Х	Е	Υ	Н	Ν	М	K	U	Р

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Muscular Runner



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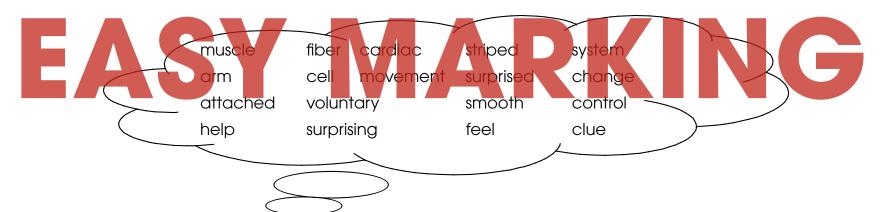
NAME: _____ After You Read

The Muscular System - Muscles

- 3. What are two ways muscles help us?
- **4.** What do skeletal and cardiac muscles look like?
- **5.** What muscle do you think is the most important and why do you think so?

Extension and Application

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3. Possible answers: Give our body shape, help us

- 4. Stripes
- 5. Answers will vary
- 6. Answers will vary
- 7. Answers will vary
- 8. Answers will vary

Answers will vary



Answers will vary



Part 1

a) skull

c) clavicle

b) mandibled) scapula

e) sternum

f) ribs

g) humerus

i) backbone h) ulna

pelvis

m) femur I) phalang

n) pate

o) tibia

p) fibula

Part 2

Answers will vary

(13)



