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STUDENT HANDOUTS

• Reading Comprehension

Lauring Completions
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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FREE! 6 Bonus Activities!

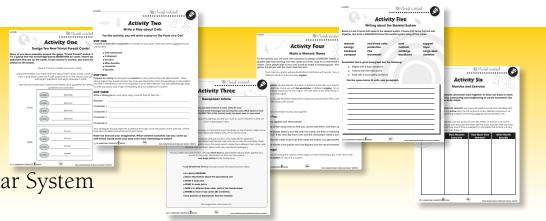
3 EASY STEPS to receive your 6 Bonus Activities!

• Go to our website:

www.classroomcompletepress.com\bonus

• Click on item CC4516 – Cells, Skeletal System & Muscular System

• Enter pass code CC4516D





NAME:

The Skeletal System - Bones

1. Use your dictionary to look up the meanings of the words below. Write the definition in the space beside each word.

bones	skeleton	skull	ribs	marrow	calcium
1)		is a mine	eral in bone	that makes it sti	rong.
• Our oveto	m of bones is called	our			
DUL SVSIC				·	
•	d cells are created			s in the	
				s in the	
Red bloo		deep inside 	e our bone:		are under you
Red bloo	d cells are created	deep inside 	e our bone:		are under you

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After You Read 🔷

NAME:

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The Skeletal System - Bones

7

- 1. Put a check mark (\checkmark) next to the answer that is most correct.
 - a) Why is it important that bones are hard?
 - O **A** to give our body support
 - O **B** to keep our muscles strong
 - O **c** to give us support and protection
 - O **p** so it is easier to make red blood cells
 - b) Bone marrow is the third inside layer of bone. What does bone marrow do?
 - O **A** give our body strength
 - **B** protects the rest of the bone
 - O **c** creates red blood cells
 - O **p** creates calcium
 - c) What is the skeletal system made of?
 - O **A** bones and muscles
 - \circ bones
 - **c** bones and veins
 - **D** bones and the brain
- s each of the **three layers** that we have learned 2. Here is a picture of a bone. It sho ne correc about. Label each layer

compact bone

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bone marrow

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spongy bone

NAME: _





The Skeletal System - Bones

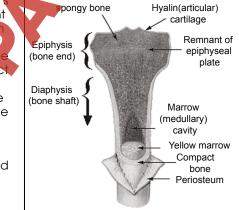
All of the bones in your body make up your skeleton. Your skeleton is also called the skeletal system.

1. Write TWO things you know about bones or your skeleton.



■2. Write a QUESTION that you have about bones or your skeleton.

You have probably never seen any of your bones, but you can feel their hardness through your skin. It's this hardness that allows bones to do two important jobs: give support and give protection. The skelet gives the body structure and support like the veins in an umbrella. Without bones humans would not able to move, run or even stand. Bones also protect other parts of our body. For example, the brain is protected by the skull; the liver, heart and lungs are covered by the ribs; and the spinal cord is inside the back bones.



The Parts of a Bone

All bones are made of living cells, blood vessels and nerves. They usually have three layers:

Compact Bone:

Spongy Bone:

Bone Marrow:

The first, outside layer is thin,

strong and hard bone. This

compact bone contains calcium which makes it tough.

cond, middle layer has many tiny holes and looks like "cleaning

sponge". The holes allow spongy bone to be strong, but not too heavy. The third, inside layer is made of a soft jelly-like substance called bone

parrow. This is where red blood cells are made.



NAME: _

3. In your own words, write ONE thing you have learned about bones or the skeleton. Write your answer in a complete sentence.

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	he Skeleta		n - Bones	
$\sim\sim\sim$	~~~~~	$\sim\sim\sim$	~~~~~	\sim
3. What are t	he three layers of bo	ne?		

The Skeletal System - Bones
3. What are the three layers of bone?
4. The middle layer of our bones is light. What would happen if it was heavy instead?
5. What are three organs that are protected by the ribs? Can you think of a fourth organ that is also protected by the ribs?

Extension & Applicati

- 6. Humans are protected by their skeleton. A rurtle is protected by a hard shell. In this way, it does the same job as a skeleron. Do some research to learn more about a turtle's shell and the human skeleron. Then, **compare** the skeleton and a turtle's shell. How are they similar and how are they different? Here are some questions for you to consider as you collect your facts
- What do they look like?
- Where is each located in the body (i.e., on the inside or on the outside?)
- What other job or jobs, besides protection, does each do?
- How do they grow?
- What do they need to stay healthy?

Present your findings as a one-page report. Add pictures if you like.

7. Do some research to find out three diseases that affect the bones in the human body. Also, look for information on ways to keep our bones healthy. Copy this T-chart into your notebook. Complete the chart with the information you collect. Share your findings with a classmate.

3 Diseases of the Bones | 3 Ways to Keep the Bones Healthy





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Build Your Own Cell



and sizes, but they all have some parts in common.

Do you remember what they are?

- 1. The **cell membrane** is the outside covering that separates the cell from its
- 2. The cytoplasm is the jelly-like substance inside the cell-where all the work
- 3. The nucleus floats in the cytoplasm and contains DNA.
- 4. The mitochondria float in the cytoplasm too and turn food into energy.
- 5. The lysosomes also float in the cytoplasm and keep the cell clean.

FOR THIS ACTIVITY, you will need:

- 5 different colors of plasticine
- 5 toothpicks
- small pieces of paper
- tape

STEPS:

- 1. Use plasticine to **sculpt** your cell. First, decide what shape it will be. Remember that human body cells can be long and thin, round, or rectangular in shape. Use a different **color** for each cell part. The cell should be at least the size of your hand.
- 2.Once you have finished sculpting your cell, place the toothpicks in the plasticine. You will use them as markers for the different cell parts.
- 3.On a small piece of paper, write down the cell part. "Flag" it by sticking the toothpick in the plasticine.
- 4. Tape the label (small piece of paper) to the toothpick.

When you are finished, someone should be able to look at your plasticine cell see the five different parts labeled. Have fun sculpting!

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NAME:

Comprehension Quiz



Part A

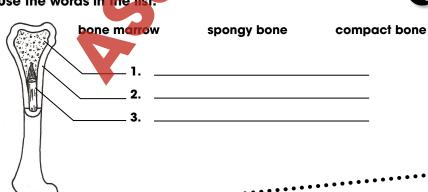
Circle if the statement is TRUE or if it is FALSE.

- 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.
- 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.





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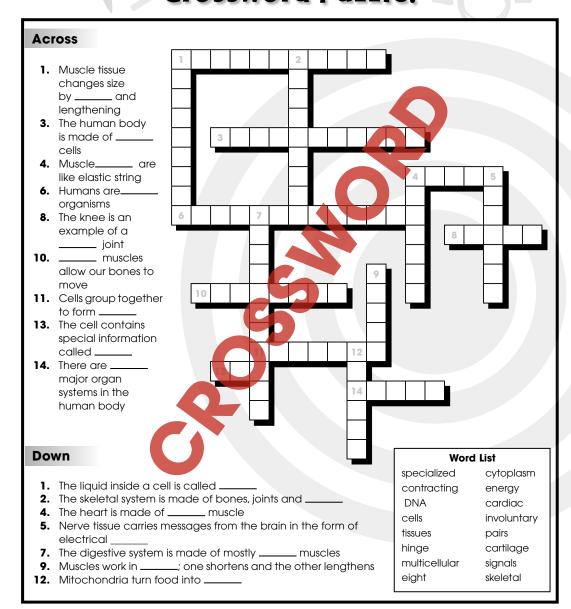
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SUBTOTAL:



NAME:

Crossword Puzzle!



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Skeletal Runner





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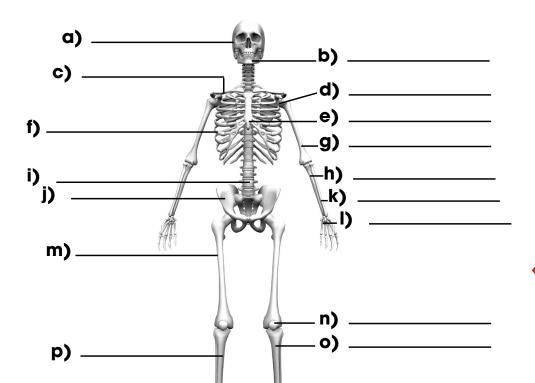
Invent an Alien Skeleton!

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



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:

Hello! I am an extra-to	errestrial from the planet	
My name is	and my favorite food is	
haveskulls,	femurs, tibias, and ribs.	
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