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Reading Comprehension
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2. In the chart below, list what you already know about the skeletal system and some questions you have.

What I Know about the Skeletal System	Questions I Have about the Skeletal System
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NAME:

The Skeletal System -**Joints and Cartilage**

Reading Passage

Uniaxial Biaxial

What Are Joints?

Your skeletal system is made up of an amazing 206 different bones. Bones are connected to each other by joints. Without joints, bones would not be able to move because it is at the joint that movement takes place. Three of the most important joints are the ball and socket, hinge and sliding joints.

1. Ball and Socket Joint: This kind of joint allows movement in almost any direction, like a computer joystick. Ball and socket joints are found in the shoulder and the hip.

 Multiaxial 2. Hinge Joint: This type of joint allows for forward an backward movement, like the hinge of a door. Elbows and knees are hinge joints. A hinge joint does not allow for as much movement as a ball and socket, but it is stronger.

3. Sliding Joint: This type of joint lets bones *slide* easily across each other. This allows both bending and turning (rotation). Ankles and wrists have sliding joints.



Think of all the places in your body where bones join together to form joints. Besides elbows and knees, what is another joint that might be a HINGE JOINT? (Remember how a hinge joint moves...)

What Is Cartilage?

NAME:

The ends of many bories are covered with a tough rubbery material called cartilage. One of the main jobs of cartilage is to protect bones at the joint. Without cartilage, bones would grind against each other when we move them. In time the bones would wear away. Besides our joints, did you know that our ears and the tips of our nose are cartilage, too? Here is another interesting fact about cartilage: Did you know that most of the twenty-nine bones in your skull (head) are held together by joints made of cartilage? These joints can

The Skeletal System -

Joints and Cartilage

4. What do you think it would be like to walk if we had no cartilage in our leg bones?

move a bit in babies, but by the time we are fully grown they do not move at all. 8

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3. Why are joints important?

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After You Read 🌪

(f) Ball and socket join



2. Here are pictures of each kind of joint that we have learned about. Label each picture with the correct name.





C)

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a)



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

Research, Extension & Application

- 6. Humans get slightly shorter between adulthood and old age. Do research to find out why this happens.
- 7. If a hip or knee joint becomes disease tit can be replaced with an **artificial joint**. Do some research to find interesting facts about this surgery. Think about these questions as you collect your facts:
 - How is a joint replacement done?
 - What material is the artificial joint made from? How is it similar to and different from bone?
 - What kind of doctor does this surgery?
- 8. Every time you take a step your knee joints work. Use a pedometer to count the steps you take in a day. Using this number **calculate** how many steps you take in a week (seven days), in a month (30 days) and in a year (365 days).
- 9. Calcium is a mineral important to having strong bones. Research to find ten foods high in calcium.

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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!)

(12)

interesting facts that you find

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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.

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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	X	S	Μ	С	T	С	A	Ρ	M	O	C	S	W	E	U
L	Κ	S	А	А	D	Κ	G	0	Р		М	K	Ρ	S	Ν	Е
S	D	R	Ι	Е	D	S	U	E	L	С	U	Ν	Е	Ι	J	В
γ	R	D	Н	Ν	М	J	С	0	N	T	R	А	С	Т	Κ	U
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D	Т	А	Ι	Т	Y	Н	N	L	Ι	U	J	М	Ζ	Ι	Κ	Ρ
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T	В	F	Υ	Е	S	R	0	Т	А	Т	Ι	0	Ν	М	D	Н
D	6	T	L	Т	Υ	J	U	Κ	R	Ν	Κ	U	Т	G	Н	С
T	D	С	Н	Е	Ι	R	0	Т	Υ	Т	Ι	0	Ν	Υ	F	0
D	S	Z	Х	С	Х	S	Т	G	В	Ν	Ν	0	D	Ν	Е	Т
U	S	D	F	Т	Н	U	S	D	Y	А	W	Е	R	Q	F	Ι
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What are specialized cells? Are they found in unicellular or multicellular organisms? Give an example of an organism that is made of specialized cells.

Name two parts of a cell. Describe the function of each



NAME: After You Read & Vou Read After You		
Joints and Cartilage		
3. Why are joints important?	3. Allow bones to move	Answers w
	4. Possible answer: difficult, painful	(II)
	5. Answers will vary	• •••••••
	6. Answers will vary	Answers w
4. What do you think it would be like to walk if we had no cartilage in our leg bones?	7. Answers will vary	(12
	8. Answers will vary	• •••••••
	9. Answers will vary	Pa
5. What joint do you think is the most important and why do you think so?		a) skull
		c) clavicle
Research, Extension & Application		i) backbone
 6. Humans get slightly shorter between adulthood and old age. Do research to find out why this happens. 7. If a hip or knee joint becomes diseased it can be replaced with an artificial joint. Do some research to find interesting facts about this surgery. Think about these questions as you collect your facts: 	AN	m) femur
 How is a joint replacement done? What material is the artificial joint made from? How is it similar to and different from bone? 		p) fibula
 What kind of doctor does this surgery? 8. Every time you take a step your knee joints work. Use a pedometer to count the steps you take in a day. Using this number calculate how many steps you take in a week (seven days), in a month (30 days) and in a year (365 days). 		Po Answers
9. Calcium is a mineral important to having strong bones. Research to find ten foods high in calcium.		13
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