Name:	Date:	Assignment:	
		Period: 1 2 3	4 5 6

## Discovery Channel Body Story: Breaking Down

_is	a Mason - Broken Bone
	The human body has an amazing capacity forand
2.	Bones resist compression forces that are
	that of concrete yet are
	the weight of steel.
3.	The arches in bone are made of the minerals
	and
	and a flexible protein called
4.	If the way you walk changes, then the arches that make bone strong
5.	Beneath the skin bones are teeming with life including bloodand
<b>ó</b> .	Microscopic organisms keep your skeleton in a state ofyouth.
7.	squirt an acid that can burn through sheet metal. It eats through the mineral
	layers and collagen. ("bone destroyers")
3.	follow in their step laying down new collagen and fresh minerals. ("bone
	builders")
9.	The bone builders work continually and% of your bones are replaced every year.
	Your skeleton is never more thanyears old!
	When she falls, the bones are subjected to a forceX her body weight.
	Herbone snaps to prevent further injury. Battered pain
	fibers send signals to the
	Her brain releasesthat mute the pain to almost nothing so that she can
	escape further danger.
	Pain is now necessary so we can evaluate (assess)damage.
	the area releases more but milder endorphins.
	On her hand special blood cells calledturn into to block the wound.
	Invisible protein strands made ofnet the wound pulling the edges together.
	is caused by blood vessels dilating to flood the area with
	has a purpose of protection so the injury is not aggravated.
	. Ais a huge blood clot that envelopes the fracture.
	Thousands of bone building cells called cells are factories that form a new
	cell now every minute.
	. As hemoglobin is broken down the color of agoes through all the color hues!
	. The scab loosens as newcells are pushed up.
	. The state its state as fromcond and pashed up.

24. The broken bones are	together. The new done is	as
thick and strong as the old bone.		
25. Osteoblasts go to work in this area and it is	s until perfect. Fo	r
year they will continu	ue to sculpt.	
Bob Bridges - Aging		
26cells replace cells all		
over the body.		
27. As you age; you are exposed to more	700	Name and Address of the Owner, where
pollution and UV light. Even without those		1
factors, cells produce their own	The second secon	The second
·		100
28. The cells of the and		A COLUMN
can't renew		1000
themselves, as other organs can.	ACCOUNT OF THE PARTY AS	~ CH10
29. Products of cell activity, called	THE RESERVE AND THE PARTY OF TH	
	STATE OF THE PARTY	
can damage anything	g in the body that they collide with. When	
is damaged, it usuall	y repairs itself. Cells with damaged DNA	commit
As you age, many co	ells die.	
$80.\mathrm{If}$ free radicals kill nerve cells in the legs $\_$	is affected.	
31. Free radicals can damage nerve cells in the	brain, causing it to shrink. This can affect	t
and	·	
32is an electrolyte, wh	iich conducts electricity in the body. It co	an affect the
rhythm of the heart.		
33. The body's production of morphine reduces	a and	<del></del> •
	st of the body's cells may continue with ce	