Name:	e:	Date: Ms. Hartnett
A & P	P	Ms. Hartnett
	Chapter 1, Part 1: The Human Body: An	Orientation
I.	WHAT IS ANATOMY?	
બ્લ	≈ = study of the	and shape of body
	parts and how they relate to each other	
Œ	≈ Ana =	
બ્ડ	≈ Tomy =	
C3	What does anatomy literally mean?	
	68	
Three	ee Main Types of Anatomy	
1.	. Gross	
2.	. Microscopic	
3.	. Developmental	
Gross	ss Anatomy	
1	anatomy (macroscopic) = the study of	body structures visible
to the	e, such as the:	
	-	
	A. Regional Anatomy = All of the structures in one j	particular of
	the body, such as the or leg.	
	B Anatomy = the gross a	natomy of the body is studied
	by system.	
	C. Surface Anatomy = the study of body structures a	as they relate to the overlying

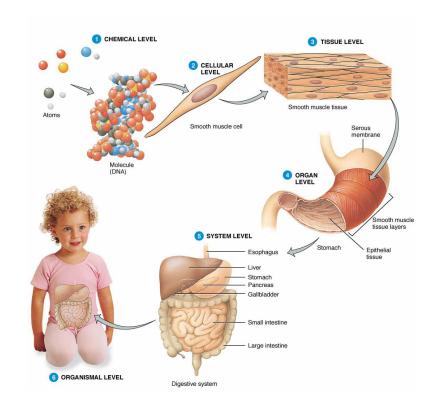
Microscopic Anatomy				
2	Anatomy = Concerns structures	to be seen		
with the naked eye.				
A	= the study of			
cyto =				
В	= the study of			
histo =				
Developmental Anatomy				
3	anatomy = traces structural	that occur in		
the body throughout the life	span			
A. $Embryology = 0$	concerns environmental changes in the	prior to birth		
Specialized Branches of Ai	natomy			
ৰে Used primarily for medic	eal and scientific research	ch.		
Anatomic	= the study of structural char	nges caused by		
Radiographic Ana	tomy = studies internal structures through			
	= the structure of biological	is investigated		
Tools for Studying Anaton	ny			
1. Anatomic				
2				
3. Manipulation				
4 = feeling organs with your hands				
5. Auscultation = listeni	ng to organ with a stethoscop	e		

II.	WHAT IS PHYSIOLOGY?				
<i></i>	= study of how the body and its part work or				
C3	Physio =				
	R Ology = the				
C3	What does physiology <i>literally</i> mean?				
	ৰে The				
Туре	s of Physiology				
1.	Physiology = considers function and urine production				
2.	physiology = Explains the functioning of the system				
3.	Physiology = Studies the functioning of the and				
	vessels				
III.	ANATOMY AND PHYSIOLOGY				
C3	Anatomy and physiology are <i>always</i>				
ω	Each part of your body has a job ()				
ω	Structure the function				
C3	of structure and function: what a				
	structure can do depends on its specific form				
Ex	xamples??				
IV.	LEVELS OF STRUCTURAL ORGANIZATION				
1.	Chemical				
2.	Cellular				
3.					

- 5. Organ system
- 6. Organism

Organ Systems

- 1. Integumentary
- 2. Skeletal
- 3. _____
- 4. _____
- 5. Endocrine
- 6. ____
- 7. Lymphatic/Immunity
- 8. _____
- 9. Digestive
- 10. Urinary
- 11.Reproductive



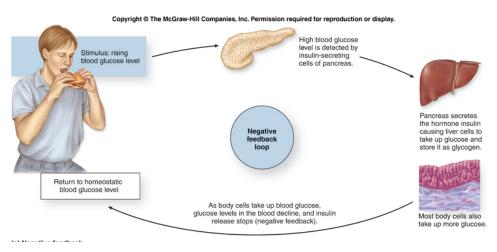
V. MAINTAINING LIFE

№ Necessary Life Functions

- 1. Maintaining _____
- 2. Movement
- 3. Responsiveness
- 4. _____
- 5. _____
- 6. Excretion
- 7. _____
- 8. Growth

Survival Nec	<u> </u>	
1. Nutrients		
2		
3		
4. Normal b	oody	
5. Atmosph	eric pressure	
	these needs are not enough	
∝ You n	eed to have them at the amo	ounts
VI. HOMEOST	<u>CASIS</u>	
•	= ability of the body to	relatively
stable	conditions even though the outside	e world changes continuous
stable Negative Feedbac		e world changes continuous
Negative Feedbac		
Negative Feedbac	k	to change in
Negative Feedbac	k feedback mechanisms = causes the	to change in
Negative Feedbac ে the Examples:	k feedback mechanisms = causes the	to change in
Negative Feedbac the Examples: 1. Regula	k feedback mechanisms = causes the direction, returning to its	to change in
Negative Feedbac the Examples: 1. Regula	k feedback mechanisms = causes the direction, returning to its ation of body	to change in

Examples of Homeostasis Controlled by Negative Feedback



Positive Feedback

(<i>A</i>		_ reedback mechanis	sms:
	€ the response		the original stimulus so the original activity is
	(33	common than	negative feedback
∞ E	xamples		
	1. Blood		
	2. Enhanceme	ent of labor	during childbirth

Example of Positive Feedback

