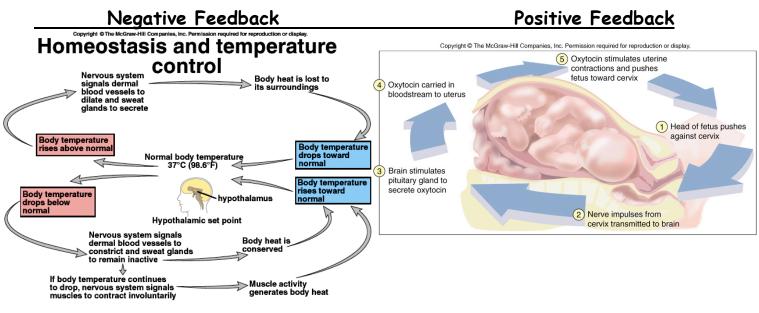
I. Anatomy & Physiology

Organization & Body Systems

The study of _____ o _____ is concerned with the _____ of a part _____ is concerned with the _____ of a part II. Levels of Organization o Body is organized into levels from most simple to most complex A. _____ Compose all substances Chemical elements o Atoms joined together form molecules (Ex: amino acid) Molecules joined together form macromolecules (Ex: protein) D. Organelles o Tiny _____ that perform cellular functions o Example: mitochondria - supplies cell with energy E. _____ Macromolecules found in all cells o _____ of all living things o Composed of similar types of cells and performs a specific function o Example: blood, muscle, fat G. Organs o _____ to perform a specific function o Example: heart, stomach H. Organ System o Example: digestive system: supply body with the nutrients needed for growth and repair I. Organism o All the body systems make up an organism

III. Homeostasis

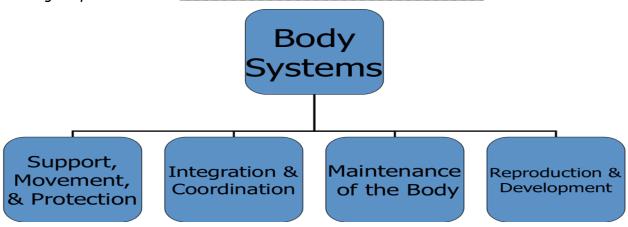
- Homeostasis is the relative _____ of the body's internal environment
- Even when external conditions change, the body's ______ stays within
 - _____ contribute toward maintaining homeostasis
- If the body's internal conditions changes greatly, illness results
- 2 types of homeostasis mechanisms:
 - o Negative feedback keeps a variable close to a particular value, or set point
 - Example: Body temperature
 - Positive feedback mechanism that brings about an ever greater change in the same direction
 - Example: Childbirth



IV. Body Systems

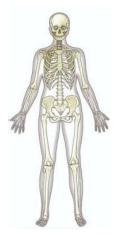
A. Introduction

- Organs in the body work together in systems
- o _____ organ systems in the body
- o Organ systems can be ______ based on function



B. Support, Movement, & Protection







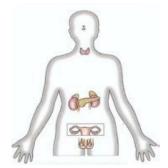
Name Organs

Function

o) otom		
Integumentary System	Skeletal System	Muscular System
and accessory	, cartilage, &	Skeletal, cardiac, and smooth
organs (hair & nails)	ligaments	
tissue,	protects body parts, produce	
body	, stores	respond to stimuli, produce
temperature & contains	calcium & phosphorus salts	body heat,
sense organs		

C. Integration and Coordination





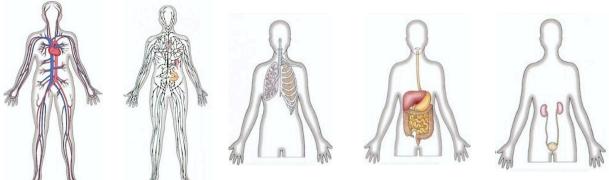
Name Organs

Function

Nervous System	Endocrine System	
	Hypothalamus,, thyroid,	
å nerves	parathyroid, adrenals, pancreas, ovaries, testes	
	that are messengers	
from the sense organs to the brain	between body part, maintain proper functioning	
and then to the muscles and glands	of reproductive system	

Unit 1: Introduction to Anatomy A&P Chapter 1.1, 1.4, & 1.5

D. Maintenance of Body



	9 6				
Name		Immune	Respiratory		Urinary System
	System	System	System	System	
Organs	Heart, blood	Lymph nodes,	Nose, pharynx,	Mouth, pharynx,	
	vessels, blood	thymus, spleen	larynx, trachea,	esophagus,	and urinary bladder
			lungs	stomach, small &	
				large intestine,	
				rectum	
Function		protects body	bring	receive food and	gets rid of
		from		digest into	nitrogenous wastes,
	and oxygen to		lungs		helps regulate fluid
	cells through		and take carbon		level and chemical
	blood, removes		dioxide out of		content of the blood
	wastes		the lungs		

E. Reproduction & Development

Name	Reproductive System		
Organs	Male: testes, epididymis, vas deferens, urethra, penis	Female: ovaries, fallopian tubes, uterus, vagina	
Function	produce	produce sex cells, nourish and	

