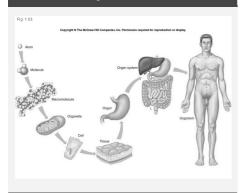


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1.3: Levels of Organization



1.4: Characteristics of Life				
Movement	change in position, motion			
Responsiveness	sense and react to change			
Growth	increase in body size			
Reproduction	production in new organisms and new cells			
Respiration	obtaining oxygen; removing CO2, releasing energy from food			
Digestion	breakdown of food			
Absorption	passage of substances in body fluids			
Circulation	movement of substances in body fluids			
Assimilation	changing absorbed substances into chemically different forms			
Excretion	removal of wastes			

1.5: Maintenance of Life			
Environmental Factor	How it helps to maintain life		
Water	provides the necessary environment for reactions; required for metabolism and transport; regulates body temperature		
Food	provides nutrients, supplies energy, supplies raw materials for growth		
Oxygen	1/5 of air, use to release energy from nutrients in metabolic reactions		
Heat	partly contols rate of metabolic reactions		
Pressure	atmospheric - for		

*Both the quality and quantity of these factors is important

flowing

Homeostasis: maintaining a stable internal environment

breathing and gas

exchange in the lungs

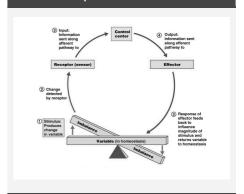
hydrostatic - keeps blood

Homeostatic Control Mechanisms:

monitor aspects of the internal environment and correct as needed

operate through *positive* and *negative* feedback loops

Feedback Loops



Stimulus - a change in an organ or tissue that causes a reaction

Receptors - monitor the environment and detect changes (stimuli)

Control Center - tells what a particular value should be (called the set point)

Effectors - initiate the response that regulates the conditions of the internal environment

Return to set point/shut off - internal conditions return to normal and feedback

Feed	hack	Med	hanis	eme

loop is shut off

Type of	Description	Examples
Feedback		

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reactions

products by metabolic

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Feedback Mechanisms (cont)

Negative inhibits stimulus, Feedback prevents

prevents temperature sudden - blood changes with pressure constant small - calcium adjustments, regulation

- body

- glucose

regulation

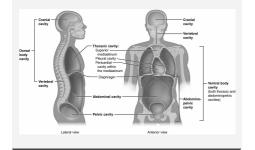
point **BACK** to normal, most common

corrects set

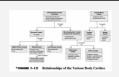
Positive Feedback

enhances - blood
stimulus, clotting
increased the - contraactions of the ctions in
body away from child birth
the set point,
temporary, don't
require
continuous
adjustments

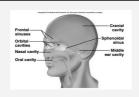
Body Cavities



Organs of the Body Cavities



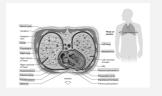
Cavities within the Head



Serous Membranes

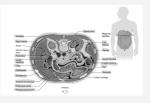
- Line body cavities and cover organs to reduce friction between organs and cavity walls
- made of epithelial tissue and secrete serous fluid to act as a lubricant
 - parietal layer: lines the cavity
 - visceral layer: covers the organ
 - serous cavity: space between the layers with serous fluid

Thoracic Serous Membranes



- Visceral pleura
- Parietal pleura
- Visceral pericardium
- Parietal pericardium

Abdominopelvic Serous Membranes



- Parietal peritoneum
- Visceral peritoneum

Terms of Relative Position

Superior - above

Inferior - below

Anterior/ventral - toward the front

Posterior/dorsal - toward the back

Medial - toward the midline

Lateral - away from the midline

Ipsilateral - same side

Contralateral - opposite sides

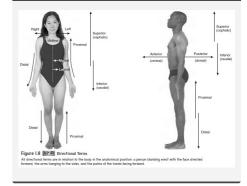
Proximal - close to point of attachment

Distal - farther from the point of attachment

Superficial - close to body surface

Deep - more internal

Relative Position



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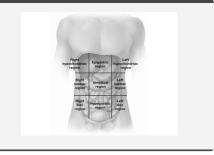
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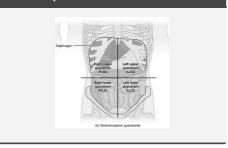
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Body Planes Sapital Plane Frontal or Consul plane (Monto to be buy) and a clipit content (Monto to be buy) and a clipit content (Monto to be buy) and a clipit content (Monto to be buy) and and a clipit content and a clipit content (Monto to be buy) and and a clipit content and a clipit content

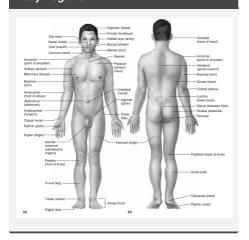
Abdominopelvic Regions



Abdominopelvic Quadrants



Body Regions





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