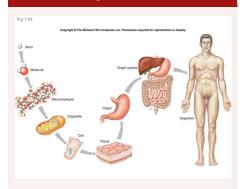


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### 1.3: Levels of Organization



1.4: Characteristics of Life			
Movement	change in position,		
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 products by metabolic		

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

atmospheric - for

breathing and gas

exchange in the lungs

hydrostatic - keeps blood

\*Both the quality and quantity of these factors is important

flowing

Pressure

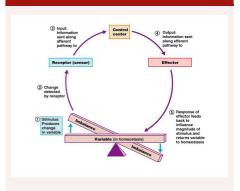
**Homeostasis**: maintaining a stable internal environment

Homeostatic Control Mechanisms:

negative feedback loops

monitor aspects of the internal environment and correct as needed operate through *positive* and

# 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 loop is shut off

#### Feedback Mechanisms

Type of	Description	Examples
Feedback		



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reactions

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### Feedback Mechanisms (cont)

Negative inhibits stimulus, - body

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

point **BACK** to normal, most common

corrects set

- glucose

regulation

- blood

clotting

- contra-

ctions in

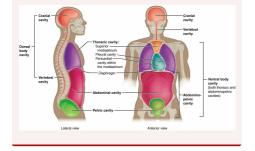
child birth

Positive enhances
Feedback stimulus,
increased the

actions of the body away from the set point, temporary, don't require

continuous adjustments

## **Body Cavities**



### Organs of the Body Cavities



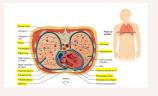
#### Cavities within the Head



#### **Serous Membranes**

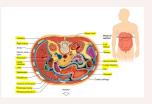
- Line body cavities and cover organs to reduce friction between organs and cavity walls
- made of epithelial tissue and secrete serous fluid to act as a lubricant
  - parietal layer: lines the cavity
  - visceral layer: covers the organ
  - serous cavity: space between the layers with serous fluid

# 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

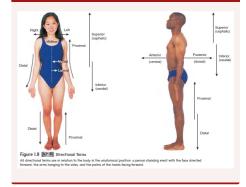
Proximal - close to point of attachment

Distal - farther from the point of attachment

Superficial - close to body surface

Deep - more internal

#### **Relative Position**





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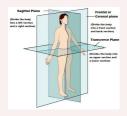
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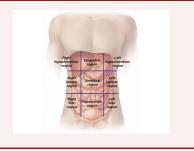


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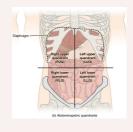
# **Body Planes**



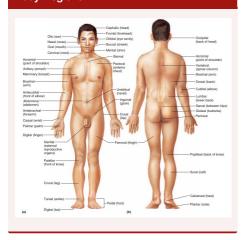
# Abdominopelvic Regions



# **Abdominopelvic Quadrants**



# **Body Regions**





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