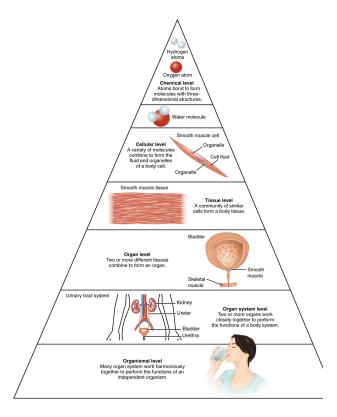
Anatomy Unit 1 Notes (Ch.1-4)

- structure of the body - how the body functions _- the study of the processes that disturb normal function (pathosuffering/disease)





Epithelial tissue covers the body surface and lines body cavities.

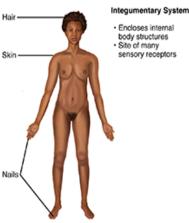


Connective tissue supports and protects organs.





Body Systems



muscles

Tendons

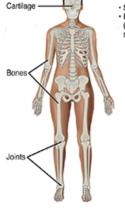
Pituitary

Thyroid

glands

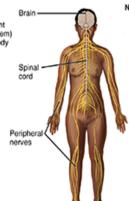


 Supports the body
 Enables movement (with muscular system)



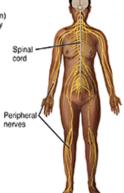


- Enables movement (with skeletal system)
 Helps maintain body temperature



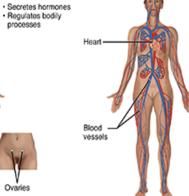
Nervous System

- Detects and processes sensory information
- Activates bodily responses



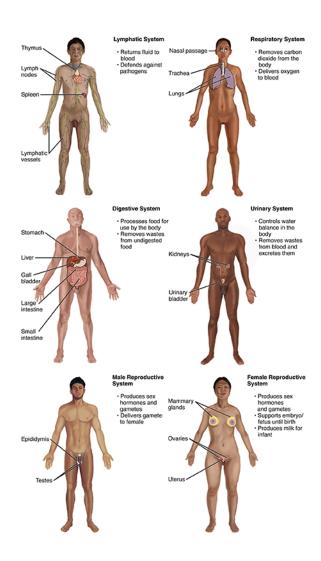
Endocrine System Cardiovascular System

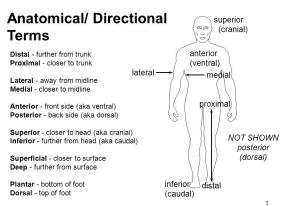
- Delivers oxygen and nutrients to
- temperature in the body

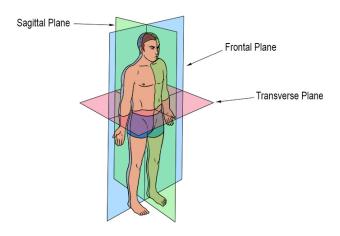


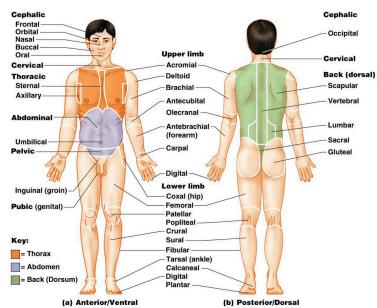
tissues • Equalizes



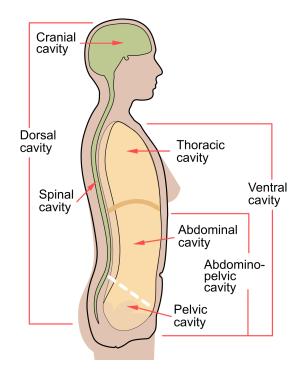


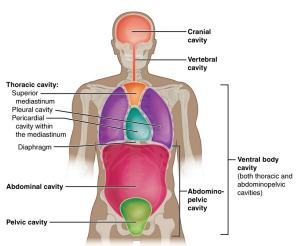


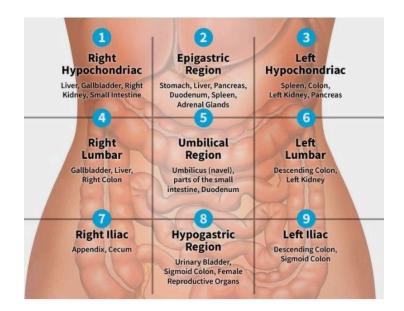




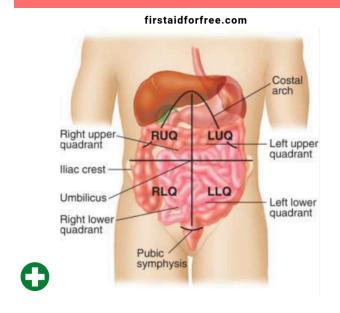
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ABDOMINAL QUADRANTS



resulting from a disorder in an entirely different area of the body

______- the body maintaining a relatively constant internal environment despite change sin external conditions; maintaining a dynamic equilibrium
_______- active balance

process of adjustment involving:

range of normal temperature,

fluids, and chemicals

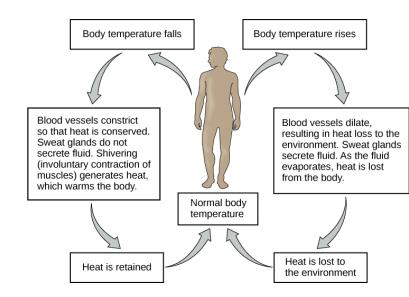
the

- A receptor- receives info about change in environment
- A control center- receives and processes info from the receptor
- An effector- responds to signals from control center by opposing or enhancing stimulus

common) - when the effector opposes the stimulus and reverses the direction

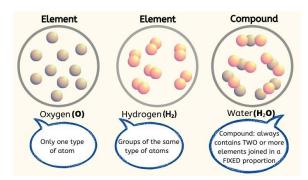
- when

the effector reinforces the stimulus and amplifies the direction of change

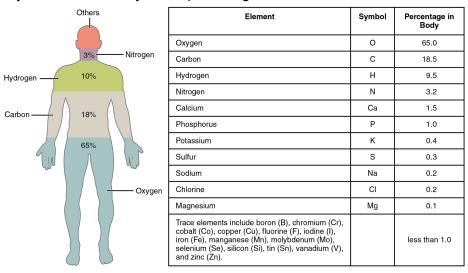


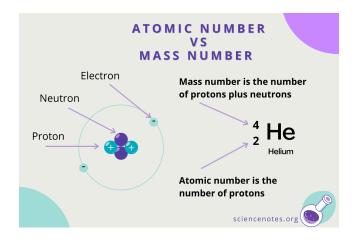
Anatomy Chapter 2 Notes: Chemistry of the Body

Matter- anything that has mass and occupies space

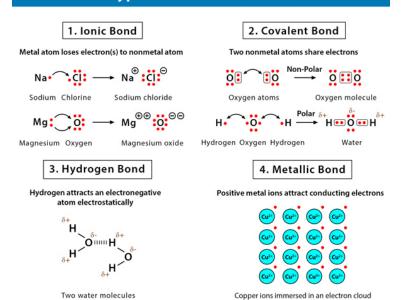


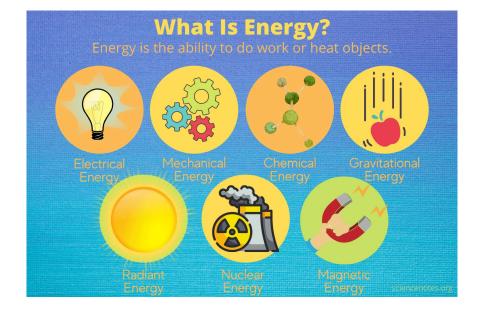
Fast Fact: If the body becomes contaminated with elements that don't serve a purpose in the body- such as lead or mercury- serious illness or disease may occur. For example, exposure to lead or mercury can lead to heavy-metal poisoning.

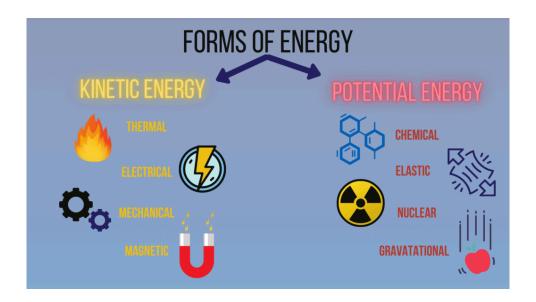




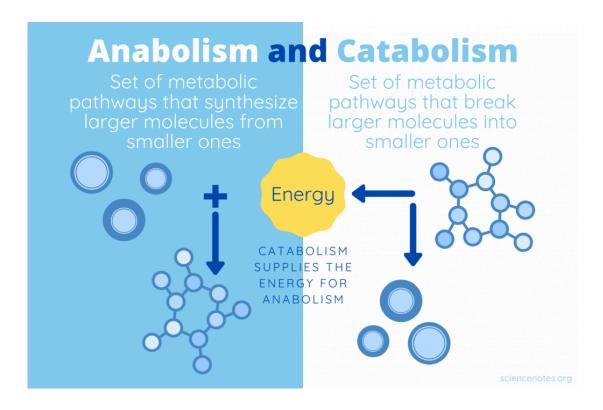
Types of Chemical Bonds



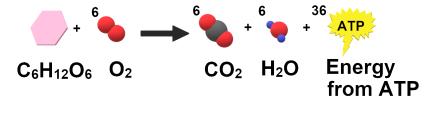


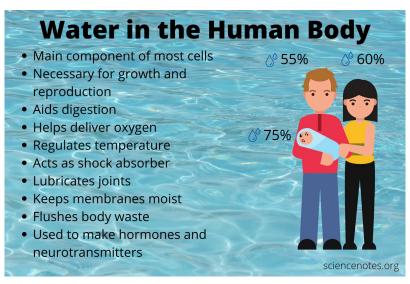


Metabolism- the sum of all chemical reactions in the body

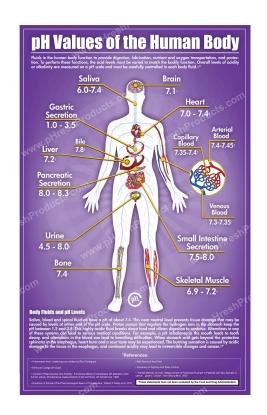


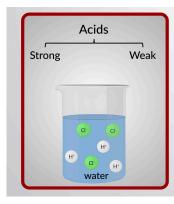
Cellular Respiration

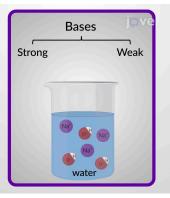




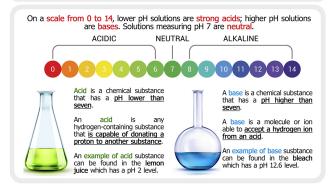
Body fluids can be compounds or mixtures





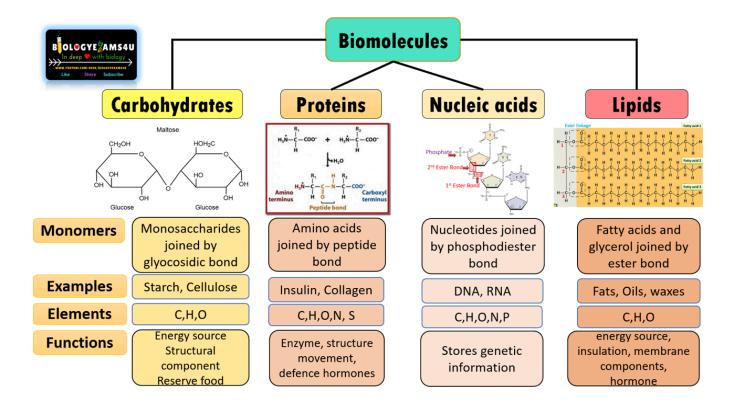


ACIDS vs. BASES



Glossary of terms \mid \bigcirc www.WorksheetsPlanet.com \mid All rights reserved





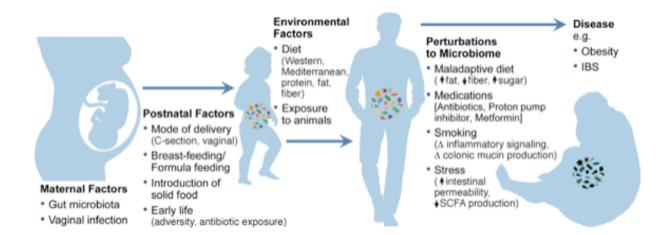
Anatomy Chapter 4 Notes

MICROBIOME

- Your body contains more microbes than it does human cells
- Human microbiome- community of microbes
- Human Microbiome Project
 - For 5 years, scientists followed 242 healthy adults, sampling bacteria from 15 or more sites on the body
 - The microbiome had more than 100 trillion microscopic life forms, with most being bacteria, but some viruses, fungi, and archaea
 - A lot of disease causing bacteria were there, living peacefully with the other parts of the microbiome
 - From person to person, the microbiome varied greatly

WHAT DOES IT DO?

- Roles of microorganisms in microbiome
 - They digest food
 - Synthesize vitamins
 - o Form a barricade against disease-causing bacteria
 - Perhaps alter brain chemistry
 - Absorb nutrients
 - Play a role in energy production



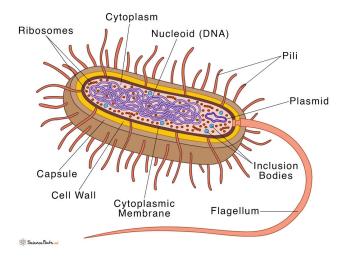
What boosts microbiome

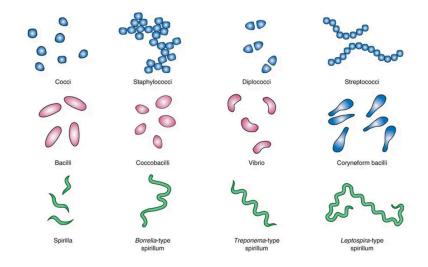
- High-fiber plant based diet
- Foods with polyphenols
- Probiotics
- Prebiotics
- Fermented foods
- Exercise
- Time outdoors
- No unnecessary antibiotics

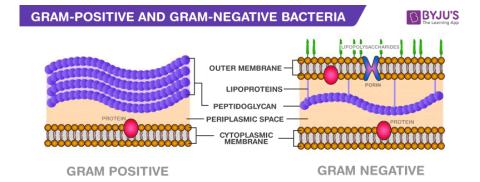
What threatens microbiome

- High-fat, high-sugar diet
- Stress
- Smoking
- Air pollution
- Sedentary lifestyle
- Overuse of sanitizing products
- Invasion of disease causing bacteria

Bacteria Cell







Mycobiome- community of fungi in microbiome

