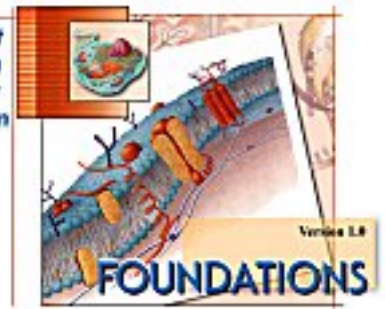


Water and Fluid Flow

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Directions:

Insert and install your Interactions: Foundations CD.

- a. Click the "Contents" button.
- b. Open the *Chemistry Level of Organization* file.
- c. Click on *Animations*.
- d. Work through *Water and Fluid Flow*.

Introduction

1. What composes the *solvent*, or largest portion, of our body fluids? _____

Fluid Composition

2. What solutes are dissolved in our body fluid's water?

nutrients - _____

gases - _____

nitrogenous wastes - _____

electrolytes - _____

proteins - _____

Roles of Water

3. Explain the roles water plays in the body?

transportation - _____

chemical reactions - _____

dehydration synthesis - _____

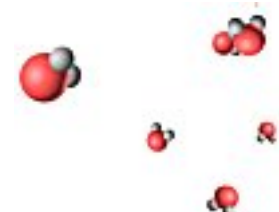
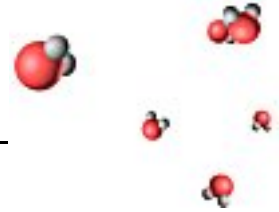
hydrolysis - _____

temperature regulation - _____

heat absorption - _____

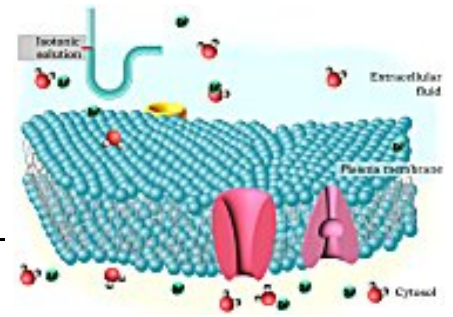
lubrication - _____

serous membranes - _____



Movement of Water

5. Describe solute and water movement with regard to *osmotic pressure*.

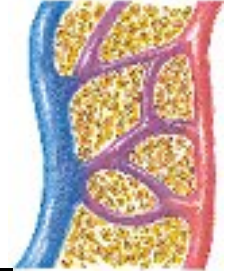


Important Uses of Fluid Flow

6. Describe the importance of fluid flow within each of the following:

capillaries

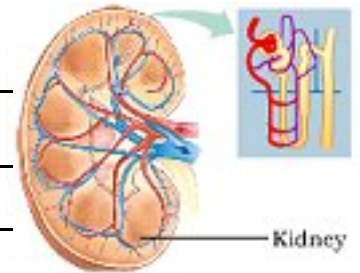
blood & body cell material exchange - _____



kidney nephrons

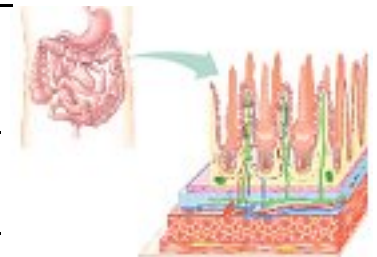
water and solute reclamation - _____

blood composition and volume - _____



digestive mucosa

hydrolysis - _____



respiratory mucosa - _____

cleansing - _____
