## Lesson 3

**Cells: Standard 3: Cell Membrane and Transport** 

## Agenda

- 1. Warm-up:
- 2. Notes
- 3. BrainPop
- 4. Textbook Practice
- 5. Gummy Bear Lab

# Warm-up HW: Finish Transport Text Practice

- 1. Write down your homework. (We will come around and check)
- 2. In your warm-up document, write and answer the question:

Why could you smell the vanilla outside of the balloon?

#### Transport within the Cell Membrane: Purple

#### **Passive Transport**

- cell uses no energy to move particles
- moves through pores in the cell membrane
- moves from high concentration to low concentration until reaching dynamic equilibrium

#### **Diffusion**

moves molecule

How it helps the cell:

- oxygen, carbon dioxide
- salts

#### **Osmosis**

moves water

How it helps the cell:

moves water

#### **Active Transport**

- cell uses energy to move particles
- moves through special gates in the cell membrane
- moves from low concentration to high concentration

#### **Endocytosis**

moves larger molecules into the cell

How it helps the cell:

foods (glucose)

#### **Exocytosis**

 moves larger molecules out of the cell

How it helps the cell:

wastes

## Brainpop



### **Textbook Practice**

if not finished in class, then homework

## Gummy Bear Lab

- 1. Open your Gummy Bear Lab
- 2. Wait for materials, then measure your gummy bear and record the measurements in the AFTER data table

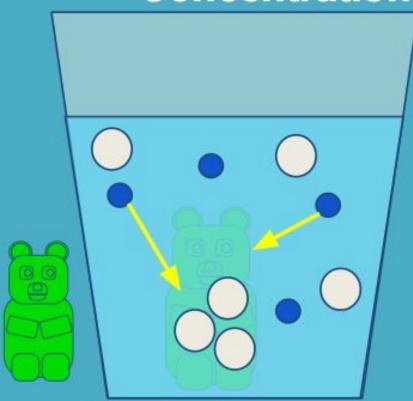
3. Paper towel/gummies: Trash Cup: rinse--->recycle spoon: rinse---> tray

### **Osmosis**



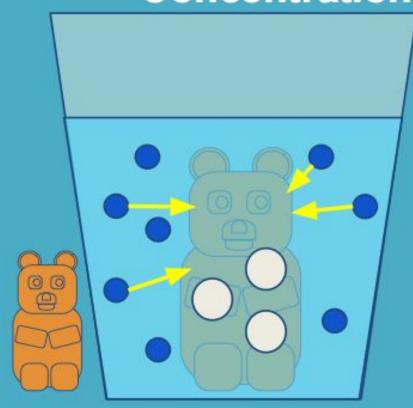


## High Sugar Concentration



- Sugar is at equilibrium
- Water osmoses to reach equilibrium
- Fewer water molecules to osmose

## Low Sugar Concentration



- Sugar molecules too large to diffuse out of the gummy bear
- Water osmoses to reach equilibrium
- More water molecules to osmose