

He

# Eggsploring Osmosis

## APK (Background Knowledge):

- Molecules must move into/out of cells.
- The cell membrane is **selectively permeable**.
- Molecules move into and out of cells down a concentration gradient. *high → low*
- No energy is needed to diffuse molecules (**passive transport**).
- **Osmosis** is the **diffusion** of water.
- Water moves from an area of high concentration to an area of lower concentration.

## QUESTION:

Will water actually move into or out of an egg demonstrating osmosis?

## HYPOTHESIS:

A. The eggs will **shrink/swell** in **distilled water** because water will move down the concentration gradient.

B. The eggs will **shrink/swell** in **sugar solution** because water will move down the concentration gradient.