# Tonicity



What do you notice about the pictures?





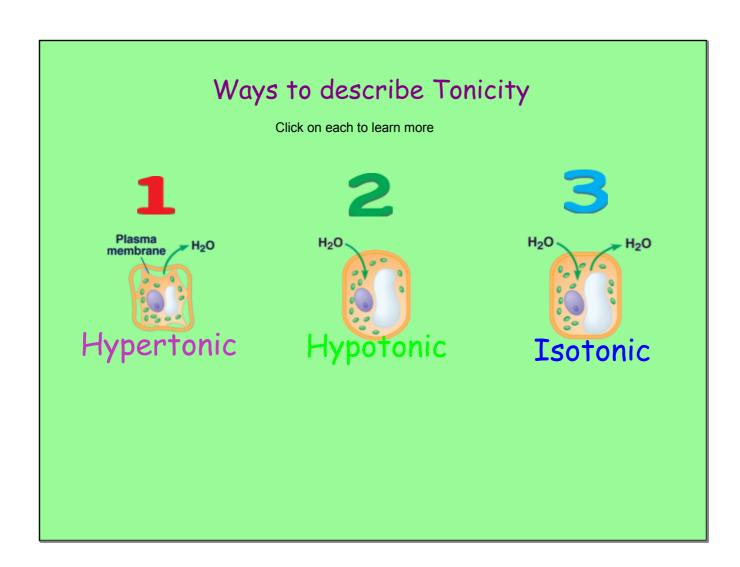


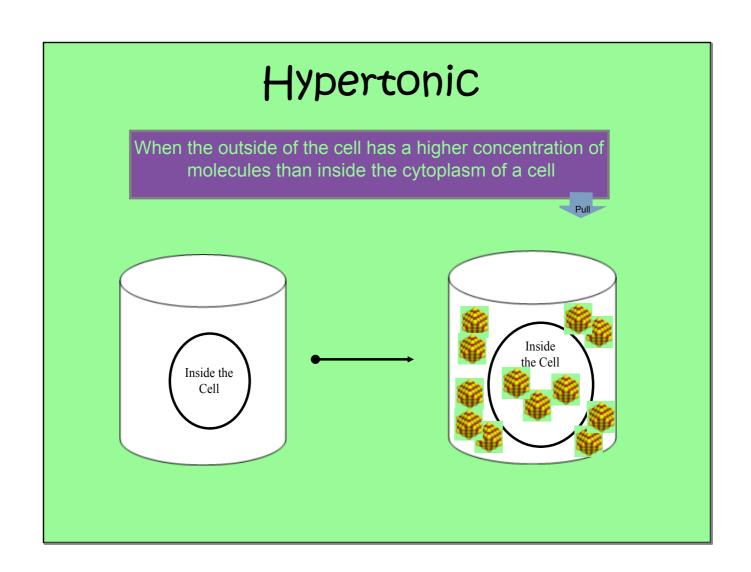
When solutions move across the cell membrane, we can compare how concentrated they are to one another.



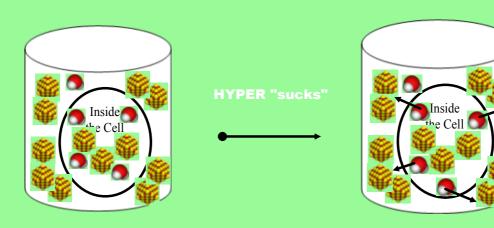


In other words, does the inside or outside of cell have a higher concentration of molecules?





#### In a Hypertonic solution which way will water move?

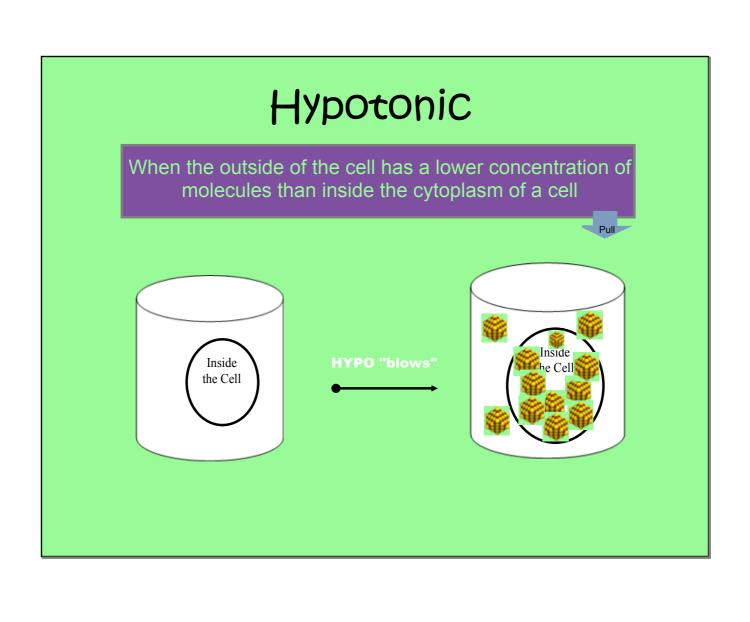


#### Will the cell shrink, expand, or stay the same?

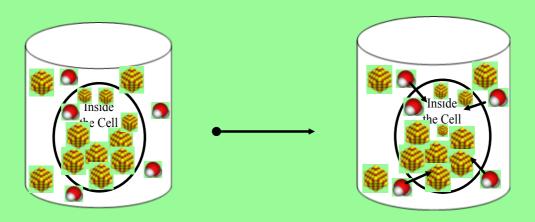
Water moves from high to low, or outside the cell. Thus, the cell will shrink.







#### In a Hypotonic solution which way will water move?

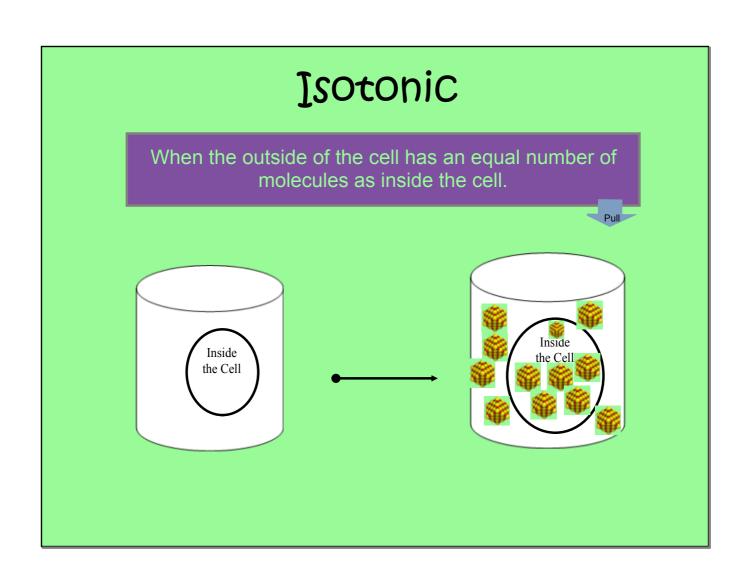


Will the cell shrink, expand, or stay the same?

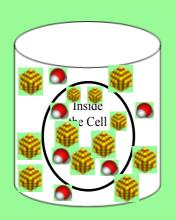
Water will move into the cell where there is a lesser concentration causing the cell to expand.

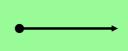


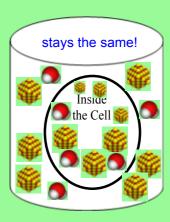




#### In a Isotonic solution which way will water move?







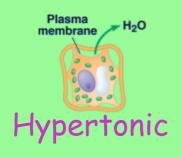
Will the cell shrink, expand, or stay the same?

Because concentrations of solutes and water are equal, water will stay in place and no change will occur.





## Hyertonic V. Hypotonic Animation!









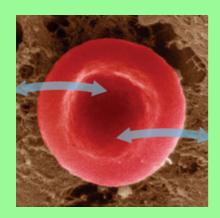
### Mix and Match!

Match the solution to the cell...

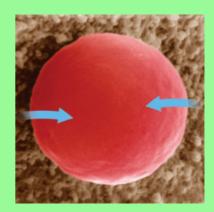
Hypertonic

Hypotonic

Isotonic







Click here to watch!

