

# U-Tube Directions

Say the left side has 15g salt + 12g sugar.

Say the right side has 25g salt + 6g sugar.

Notes: Salt can pass through the membrane. (permeable)

Sugar can not pass through the membrane. (non-permeable)

Therefore.... Salt will diffuse, making 20g on each side. (average)  
Sugar will not diffuse. The left side stays at 12g and the right side stays at 6g.

As a result... The total solutes on the left is 32g.

The total solutes on the right is 26g.

WATER ALWAYS GOES TO WHERE THERE'S MORE STUFF!!!

Therefore.... The height of the water on the left will increase.  
The height of the water on the right will decrease.

The movement of the particles/solutes is called DIFFUSION.

The movement of the water / H<sub>2</sub>O molecules is called OSMOSIS.

