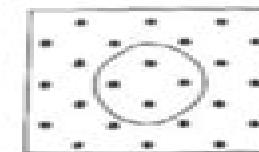
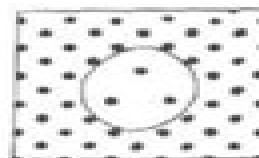
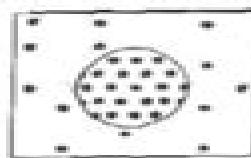


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NAME \_\_\_\_\_

Label the pictures below (isotonic, hypertonic, or hypotonic)

Black dots represent solute molecules.



\_\_\_\_\_ tonic means there is a **GREATER** concentration of solute molecules **OUTSIDE** the cell than inside.

\_\_\_\_\_ tonic means there is a **LOWER** concentration of solute molecules **OUTSIDE** the cell than inside.

\_\_\_\_\_ tonic means there is the **SAME** concentration of solute molecules outside the cell as inside.

The pressure inside a plant cell caused by water pushing against the cell wall is called **pressure**.



Cells swell and burst

The **SWELLING AND BURSTING** of animal cells when water enters is called \_\_\_\_\_.

This happens when an animal cell is placed in a \_\_\_\_\_ tonic solution.



Placing plant cells in a **HYPOTONIC** solution causes the osmotic pressure to **increase** **decrease** (Circle ONE)

The **SHRINKING** of plant cells when water leaves so the cell membrane pulls away from the cell wall is called \_\_\_\_\_.



It happens when a plant cell is placed into \_\_\_\_\_ tonic solution.



Cells shrink and shrivel

When water leaves a plant cell, the osmotic pressure will **increase** **decrease** (Circle ONE)

The shrinking of **ANIMAL** cells that are placed in a **HYPERTONIC** solution is called \_\_\_\_\_.

Cells stay the same size when placed in an \_\_\_\_\_ tonic solution because the amount of water leaving the cell is the same as the amount of water entering.

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**Gerald C. Davison, John M. Neale**

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