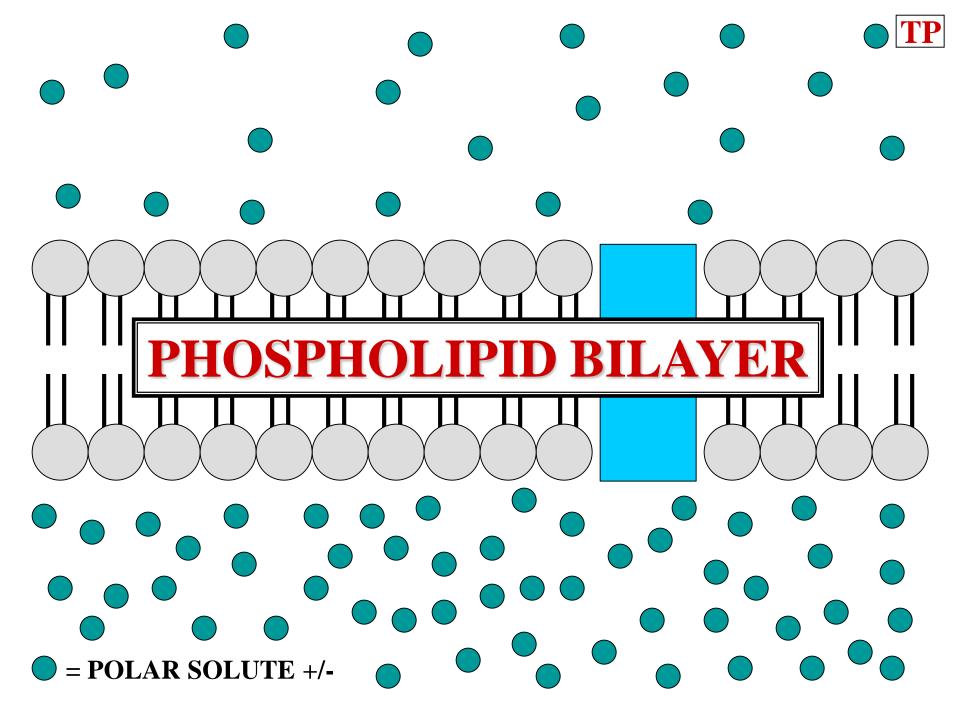
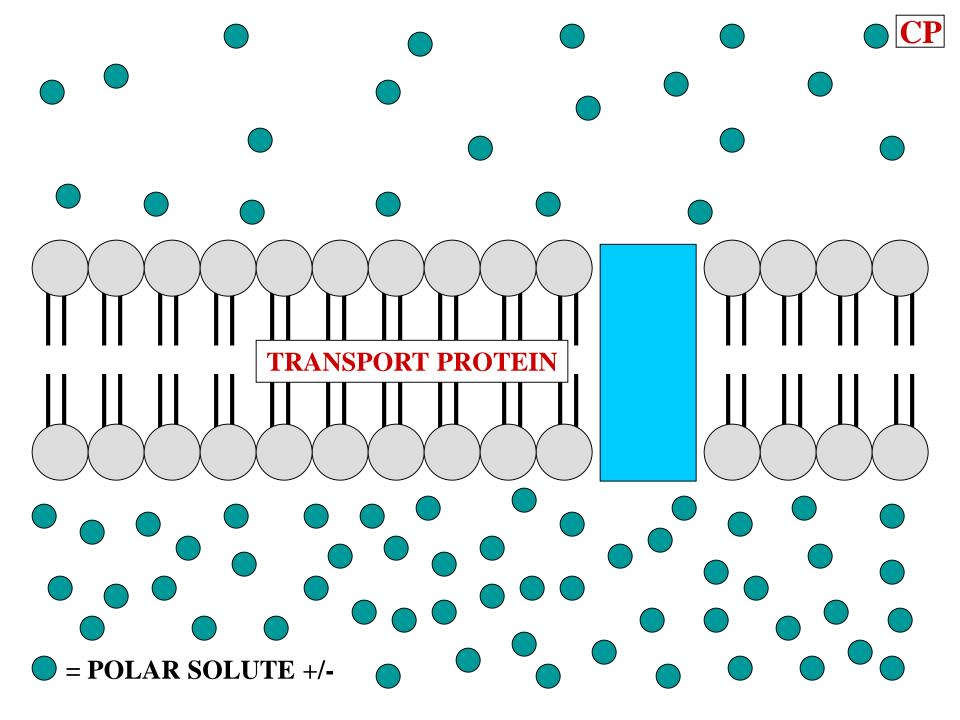
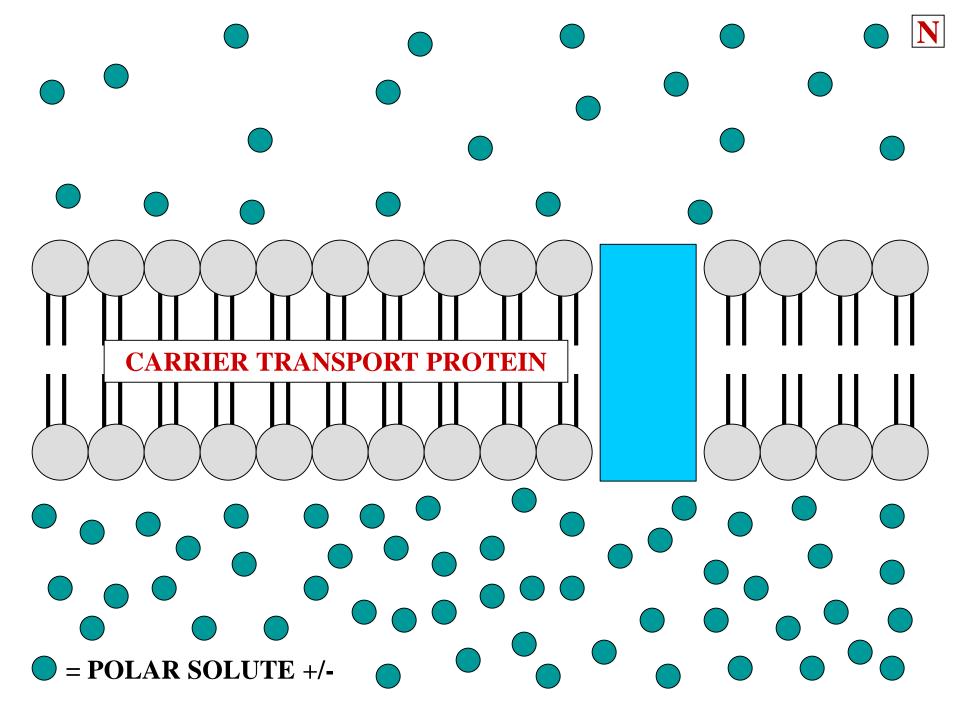
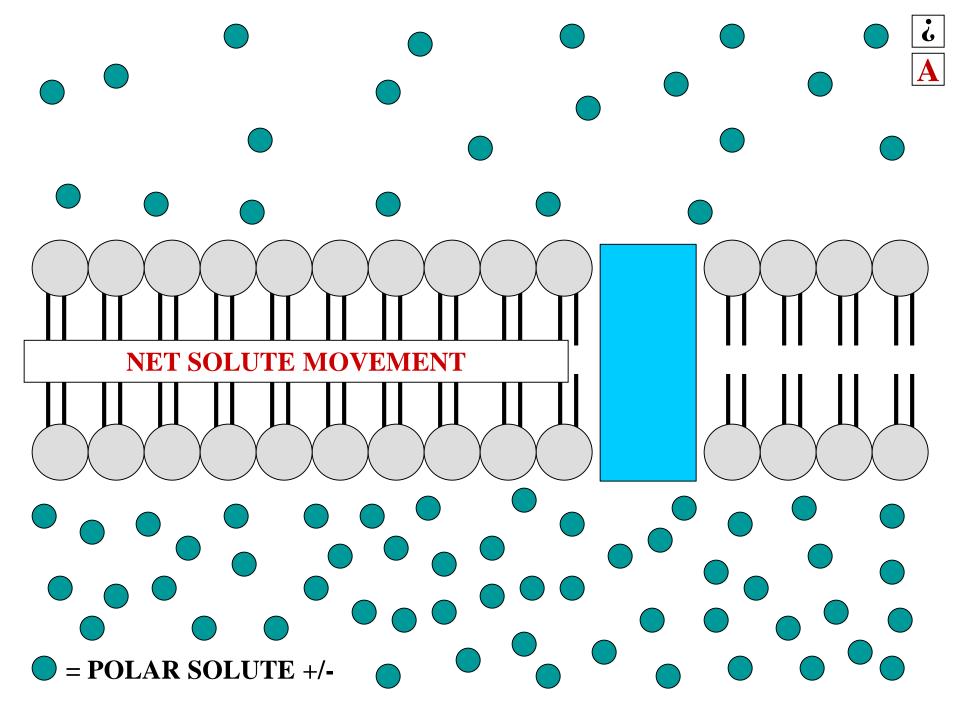


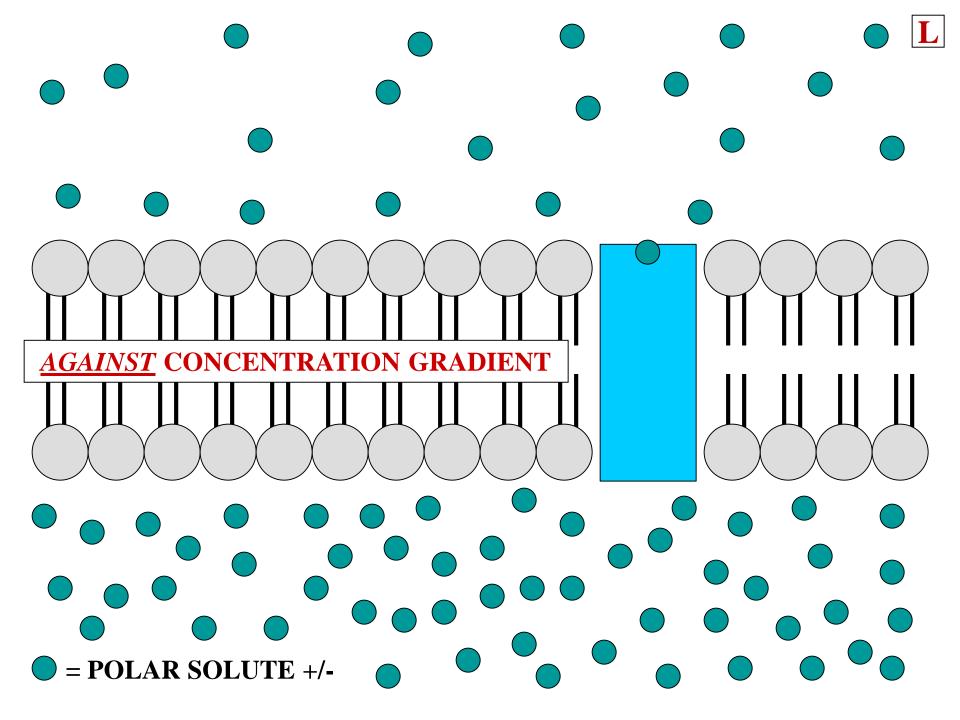
ACTIVE TRANSPORT

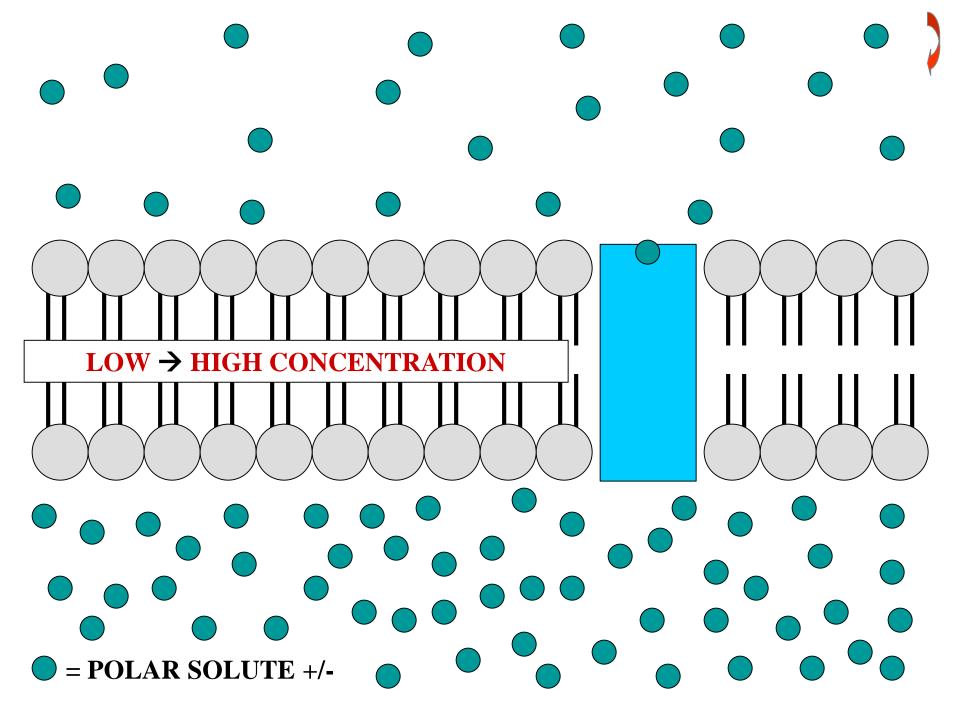


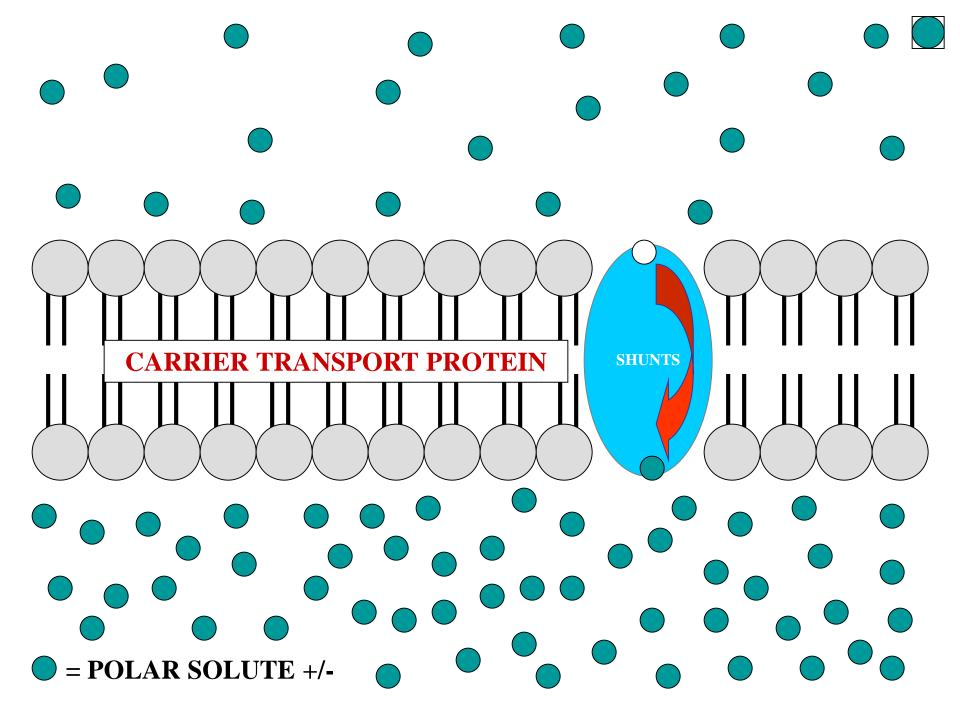


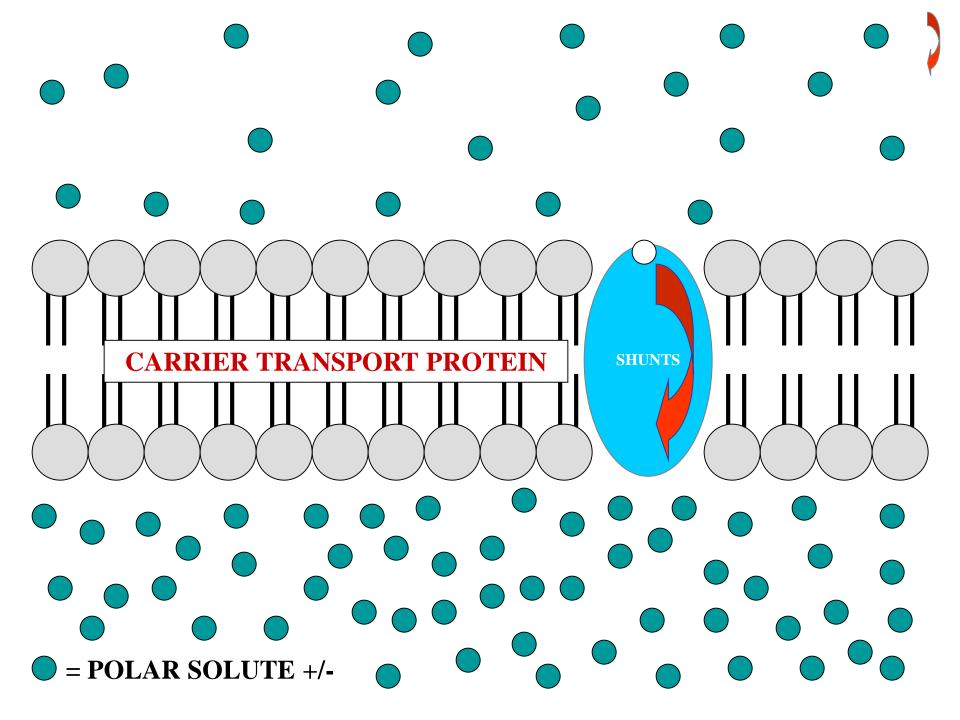


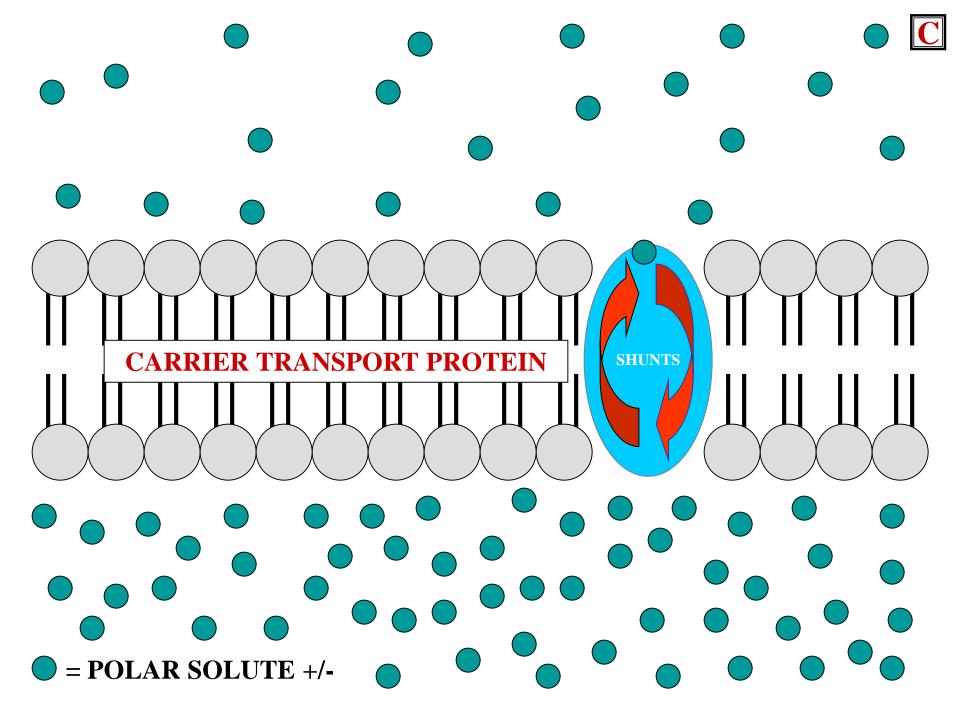


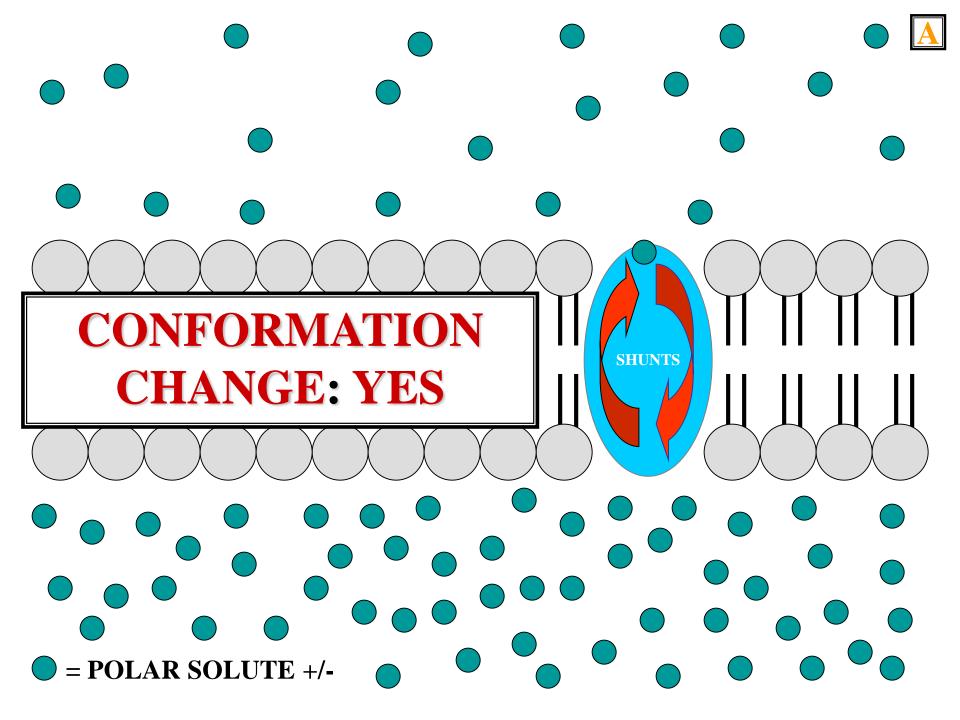


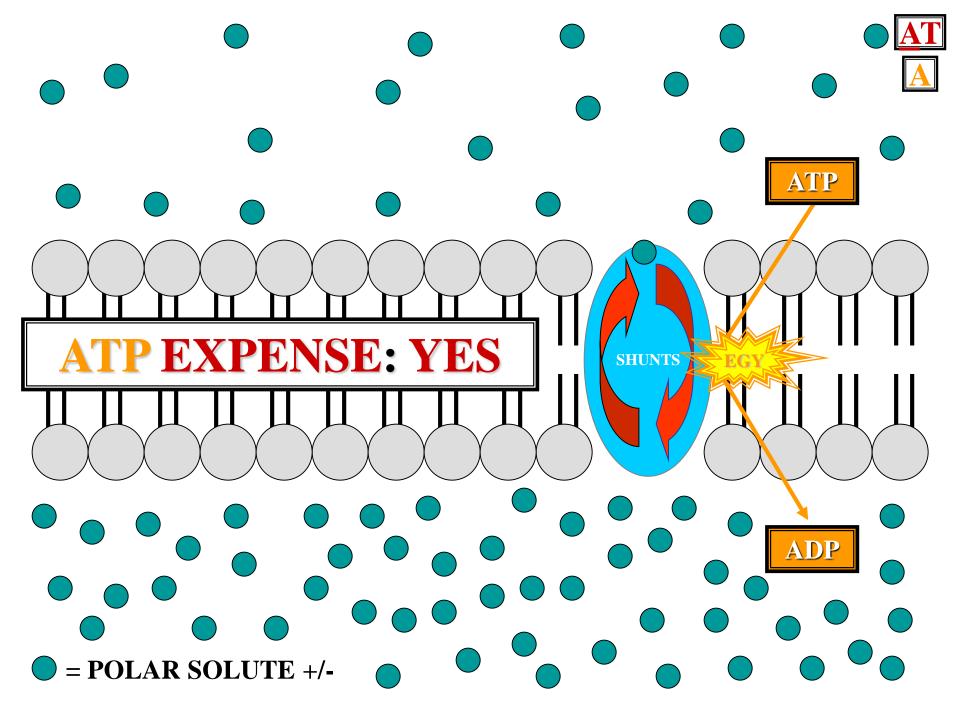


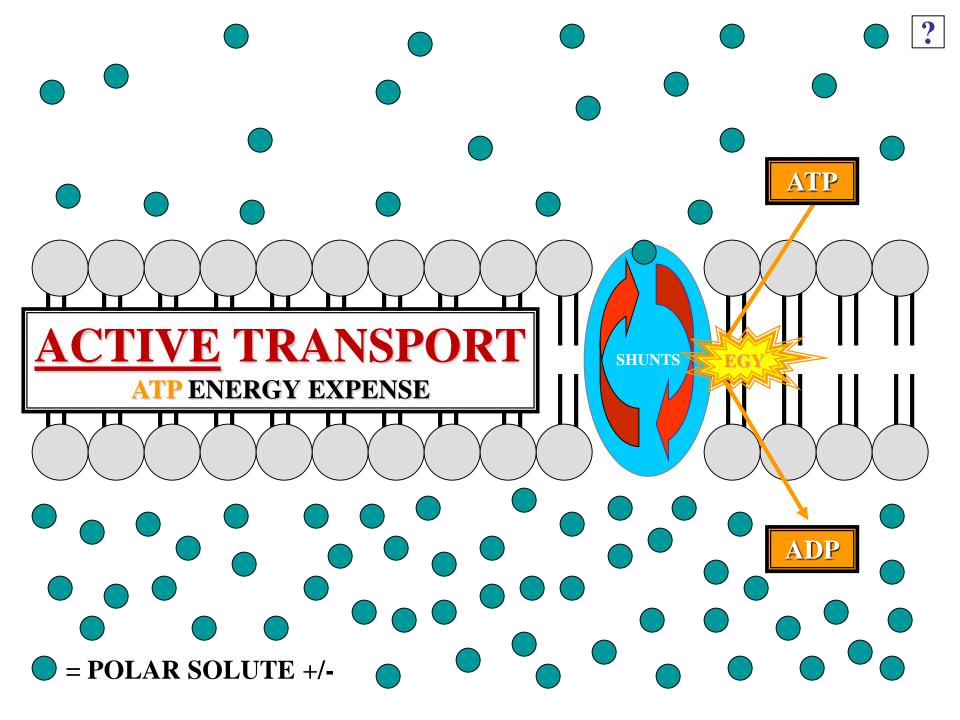














WHAT HAS CROSSED THE BIO-MEMBRANE SOLUTE OR SOLVENT?



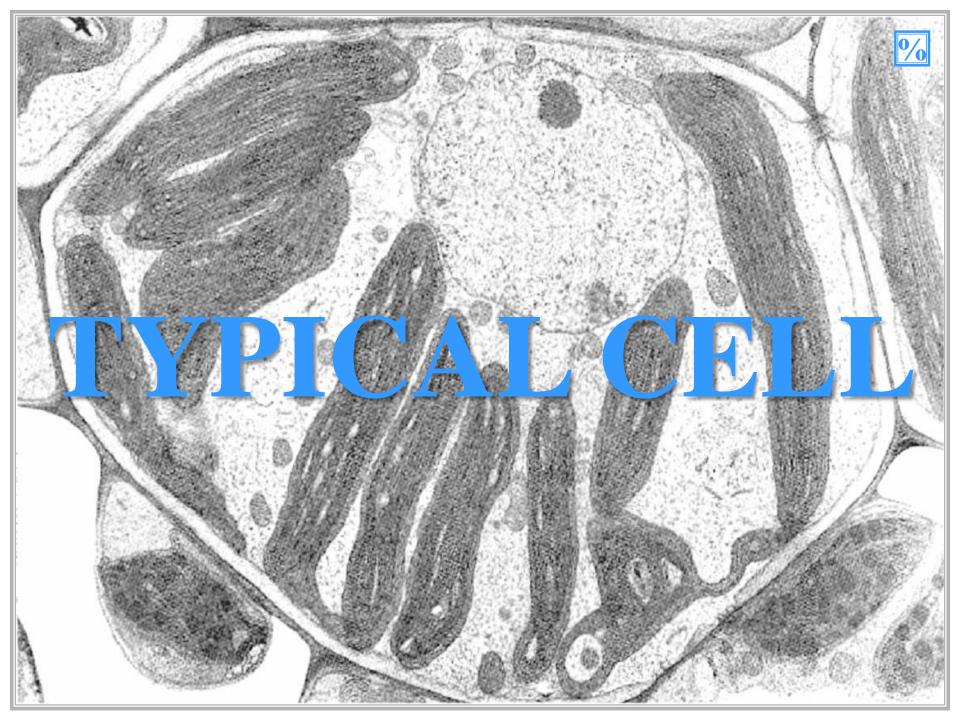
ANSWER

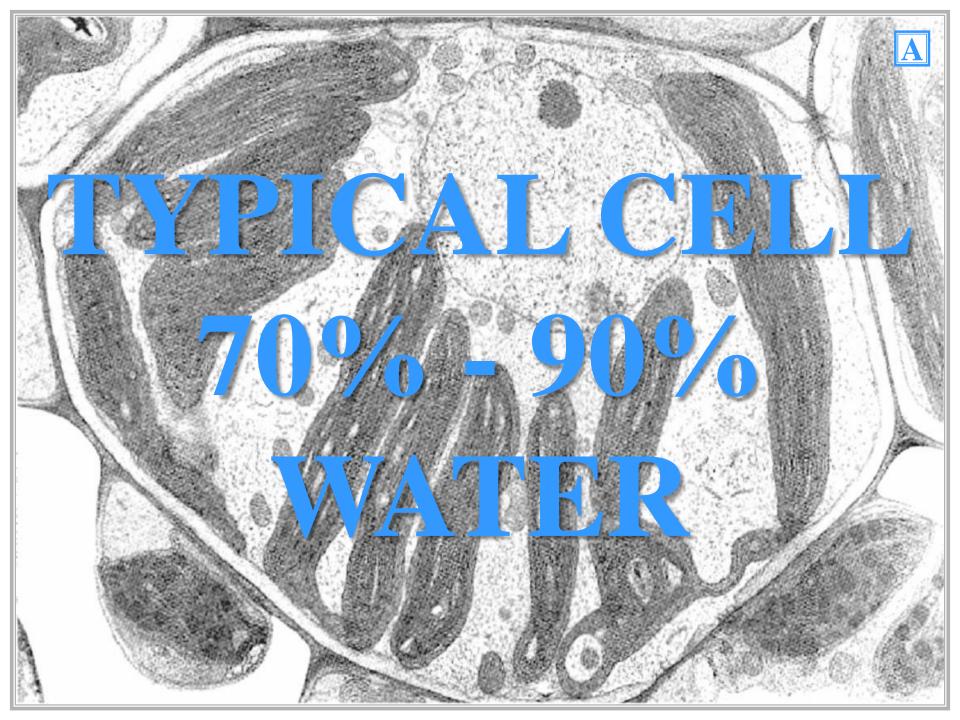
SOLUTE

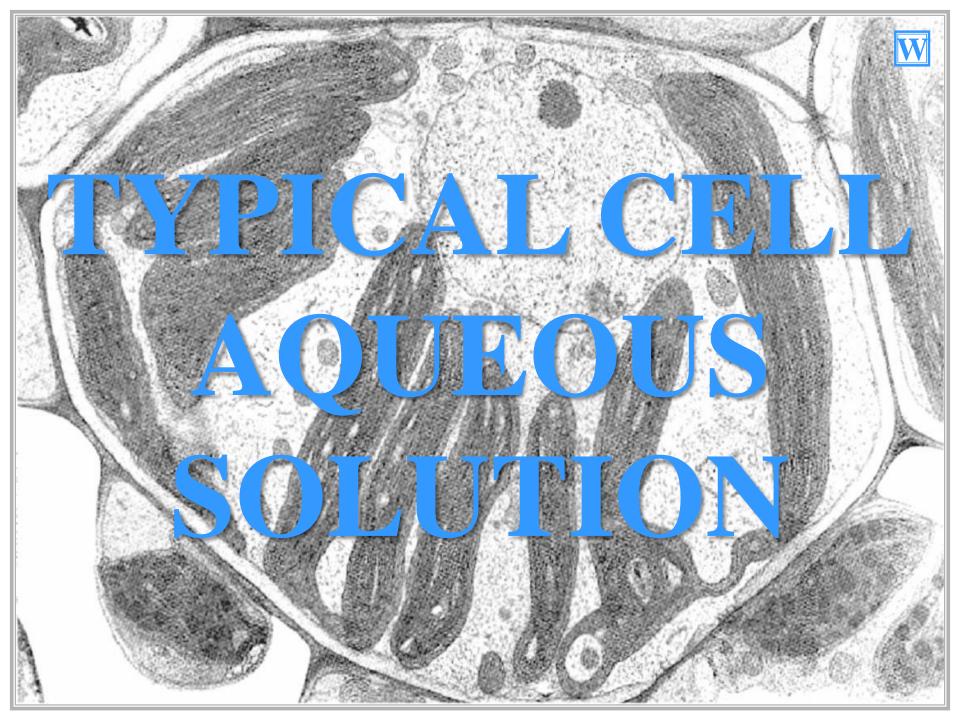
ANSWER

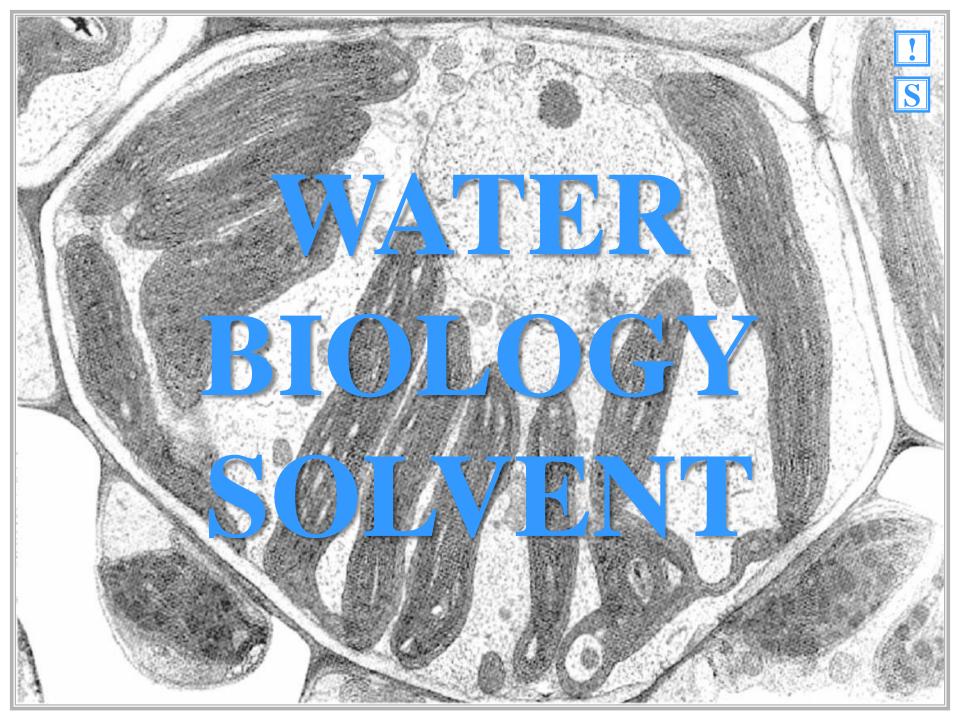


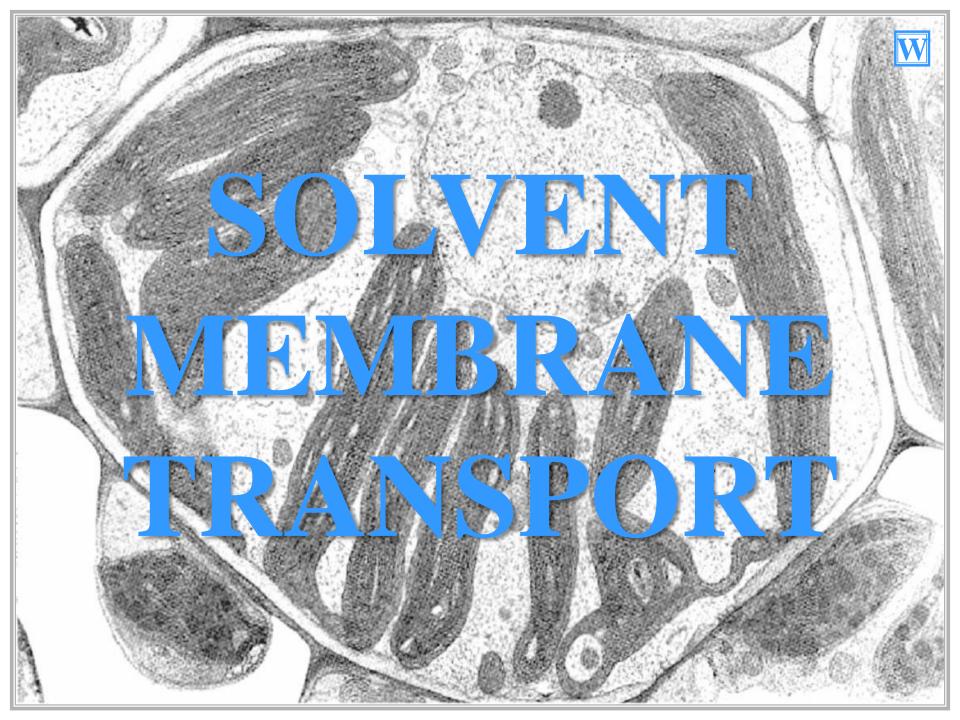
SOLVENT MEMBRANE TRANSPORT

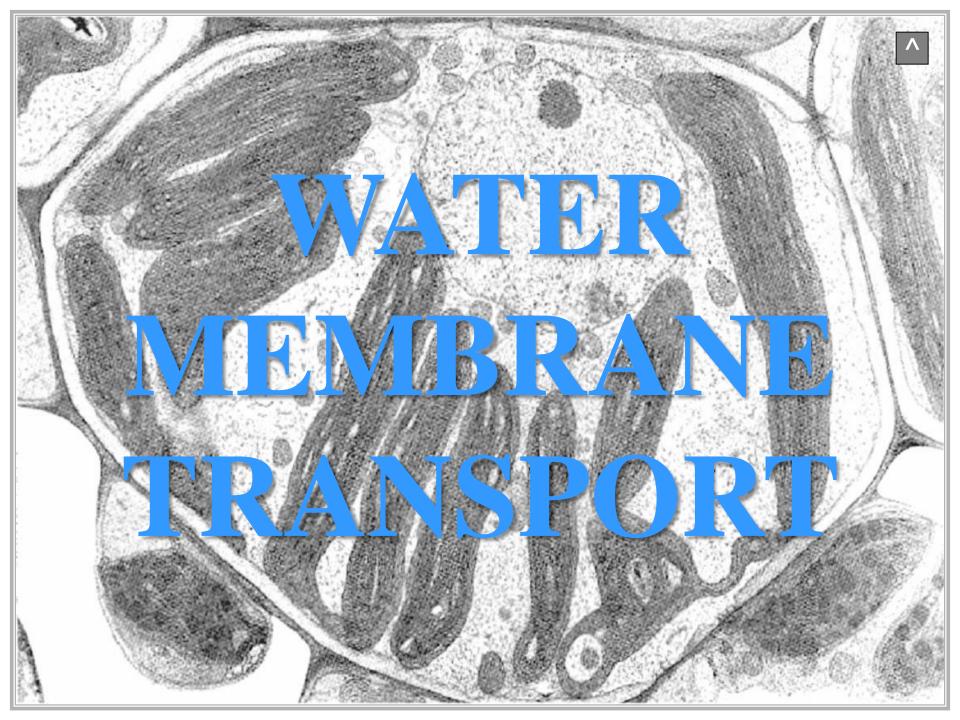






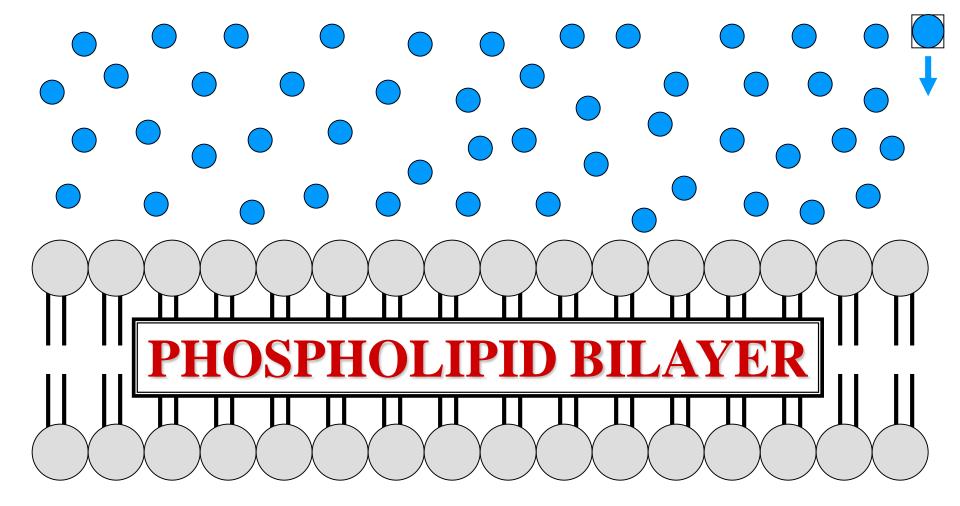




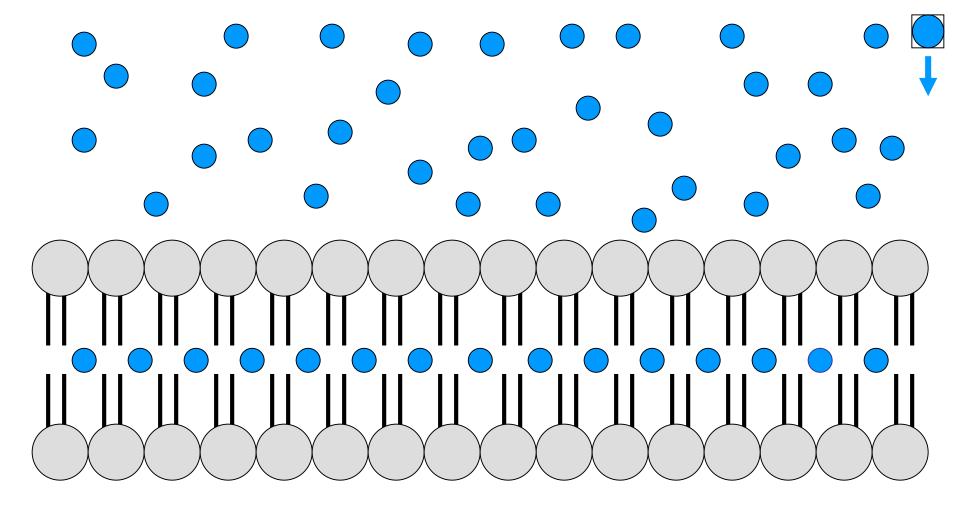


WATER MEMBRANE TRANSPORT

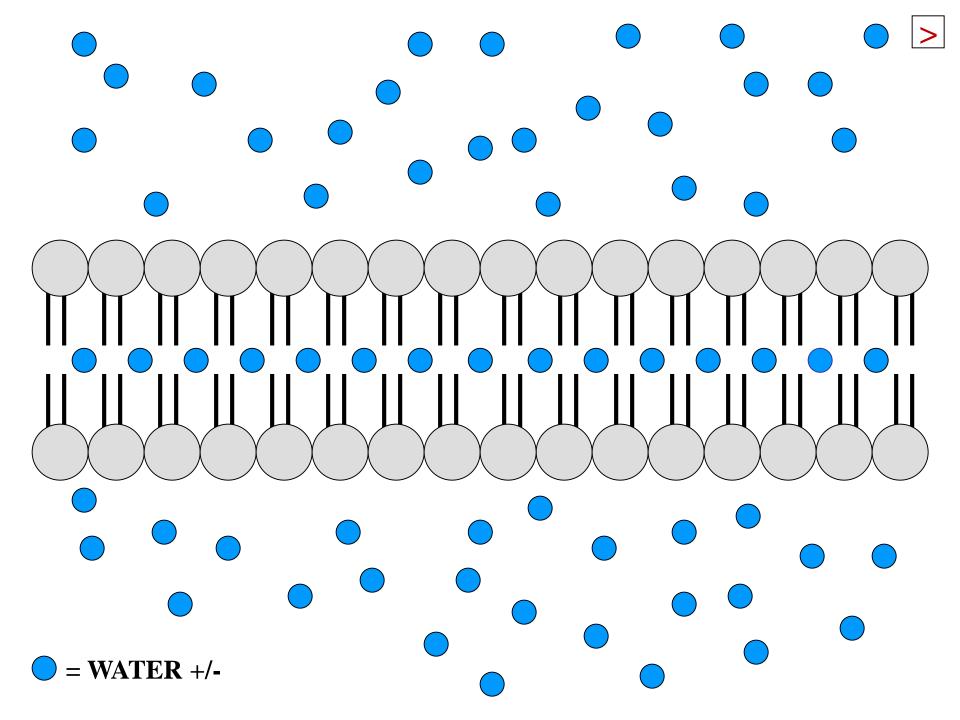
PHOSPHOLIPID BILAYER

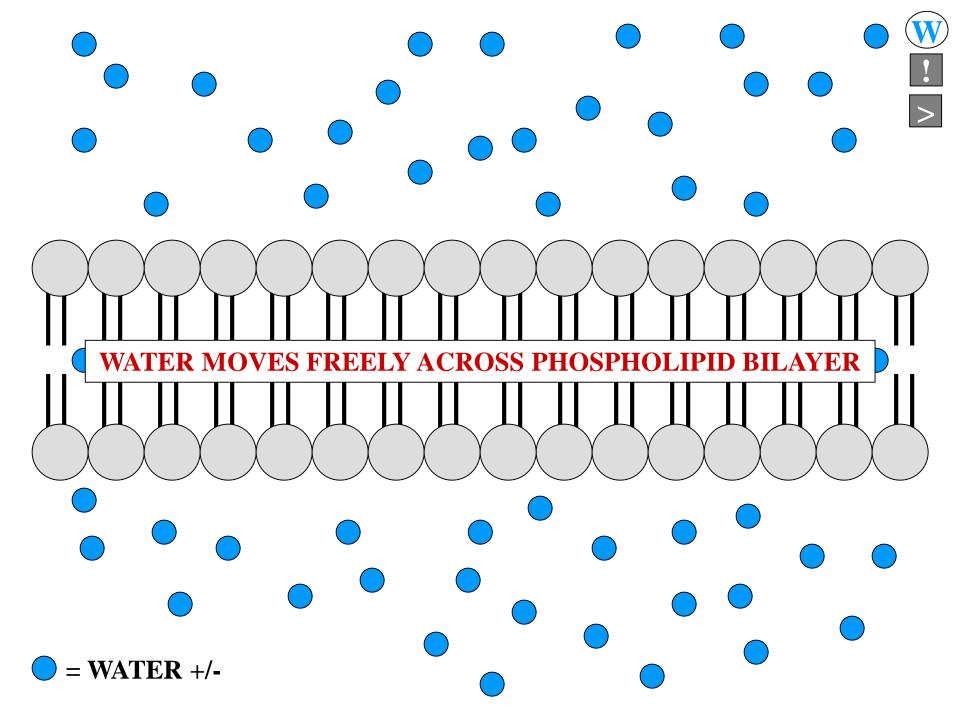






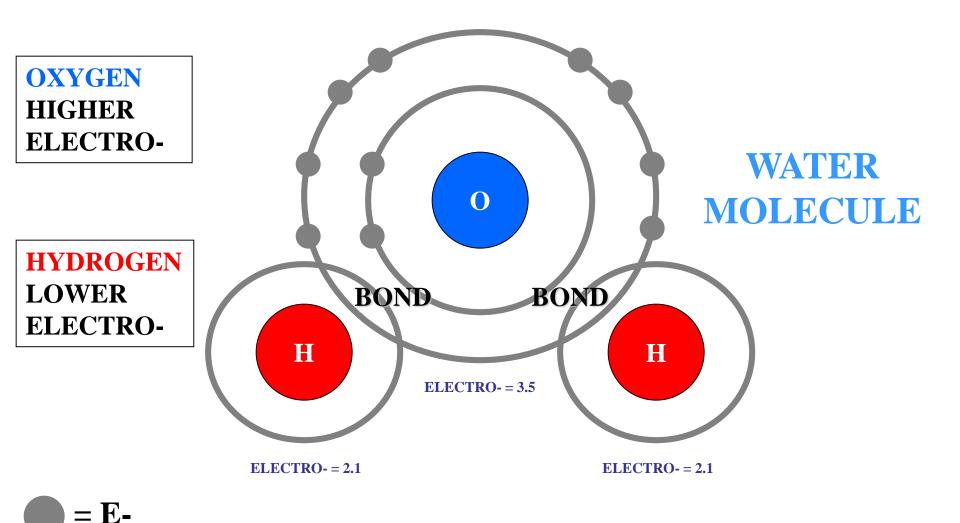






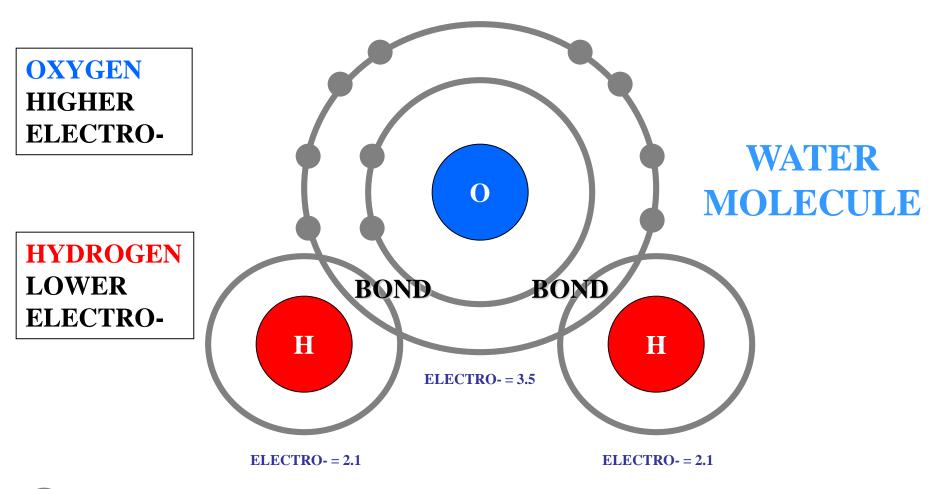


WATER MOLECULE





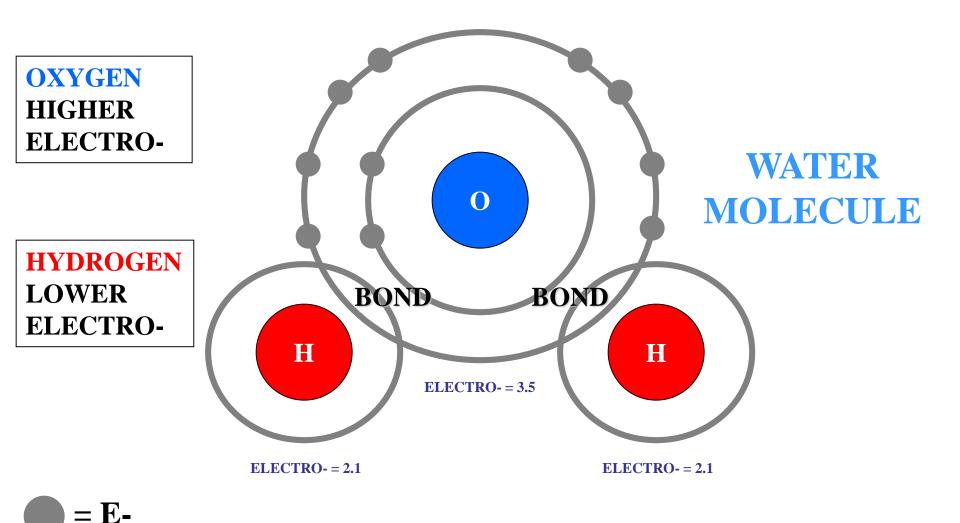
COVALENT BOND



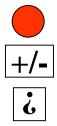
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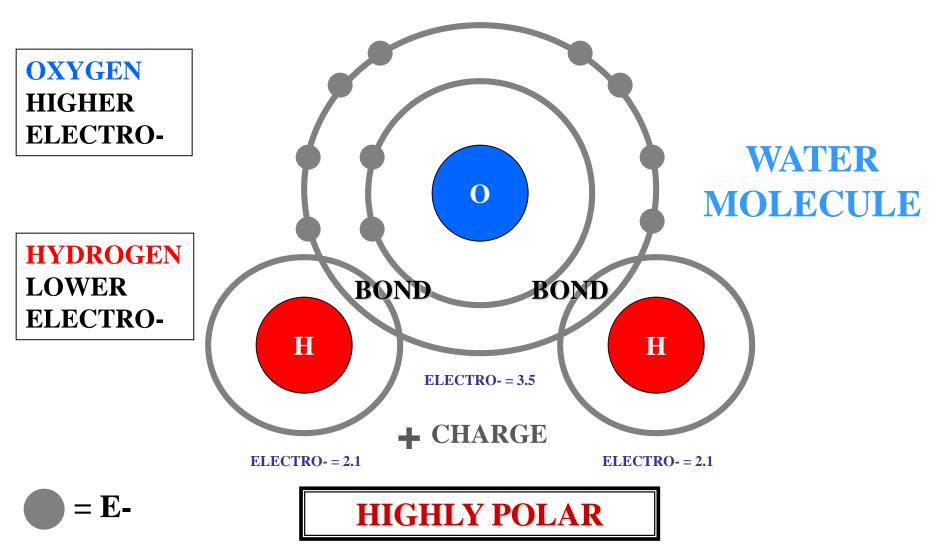
POLAR COVALENT BOND

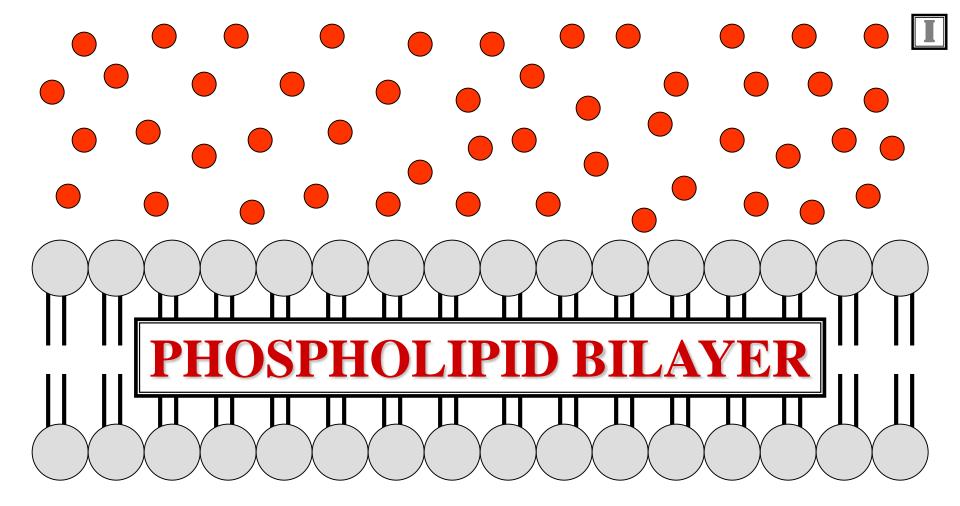






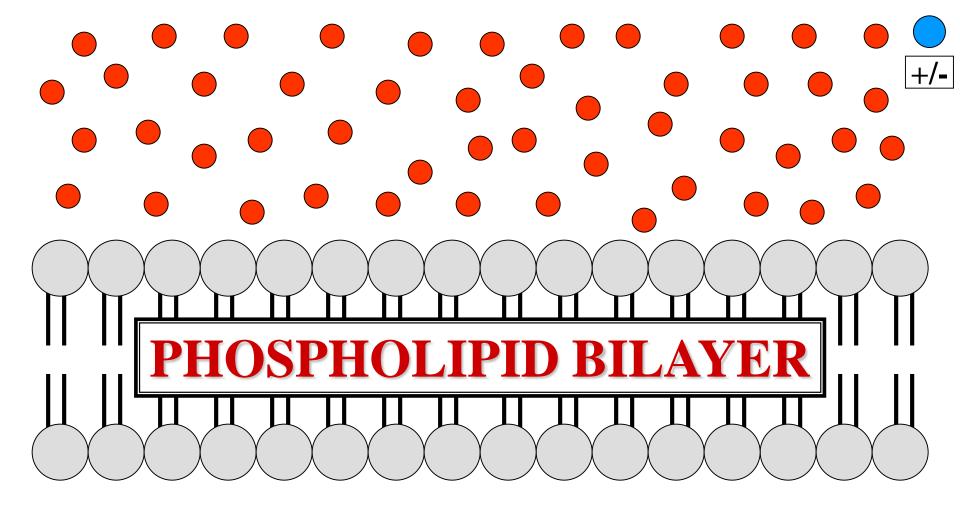
- CHARGE





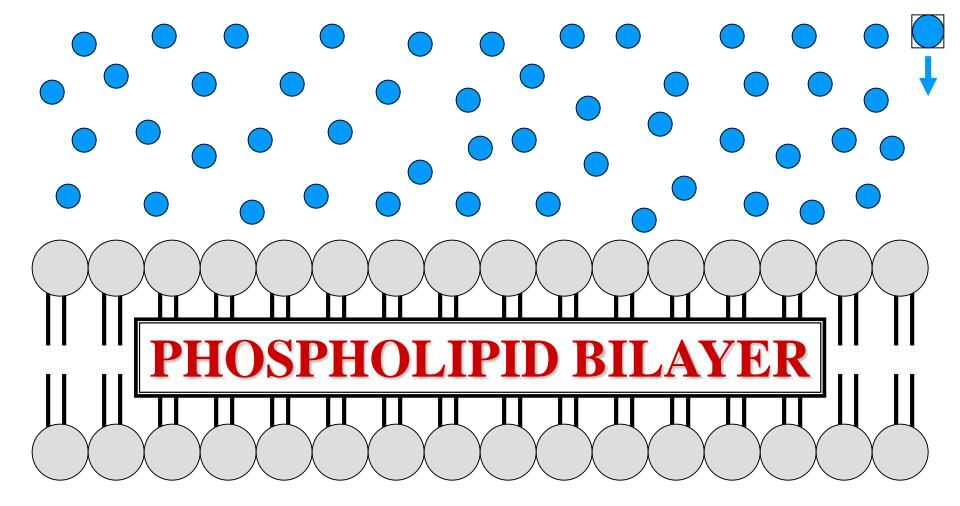
POLAR SOLUTE





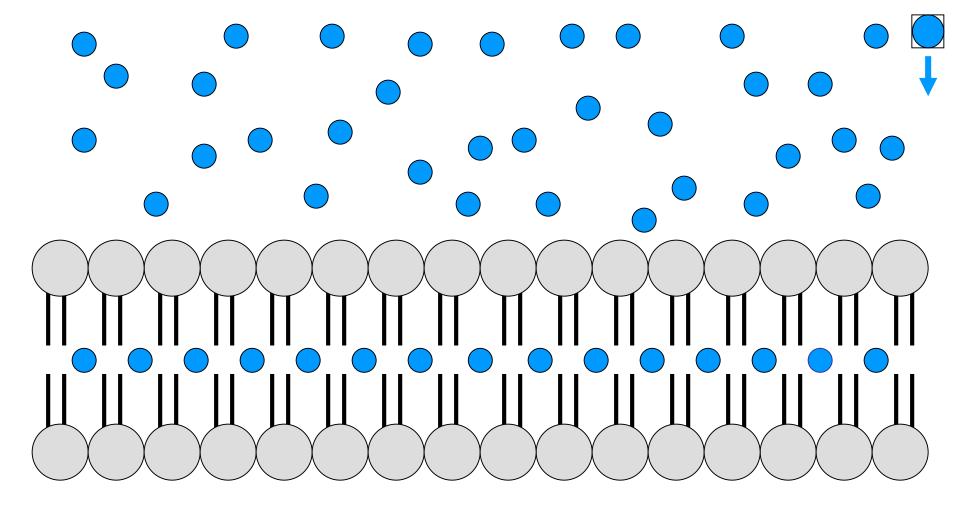
BILAYER INHIBITS PASSAGE POLAR SOLUTES



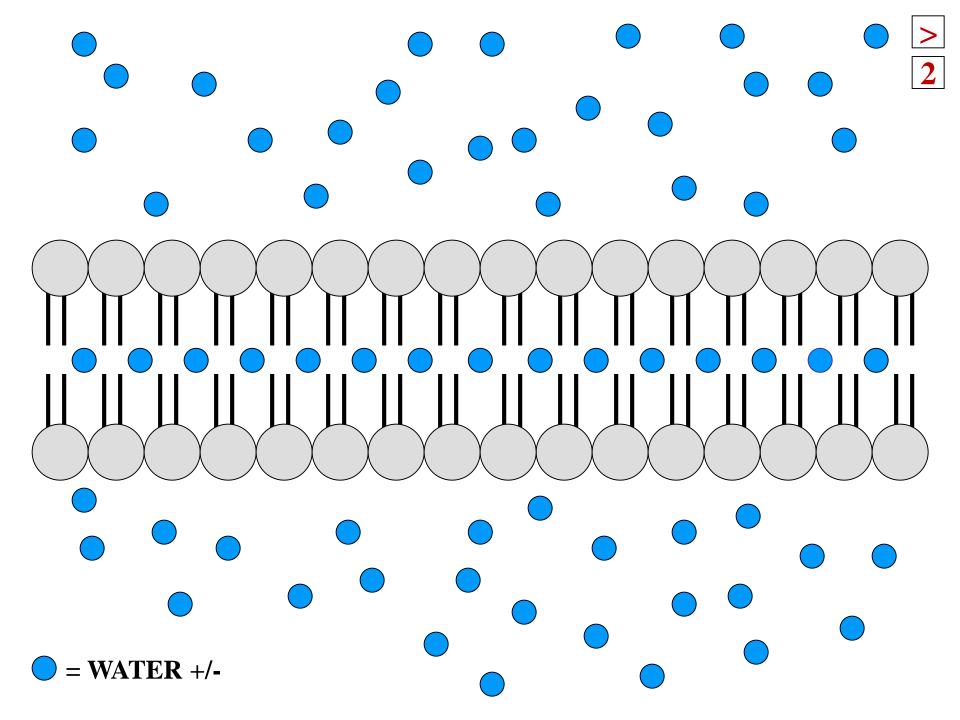


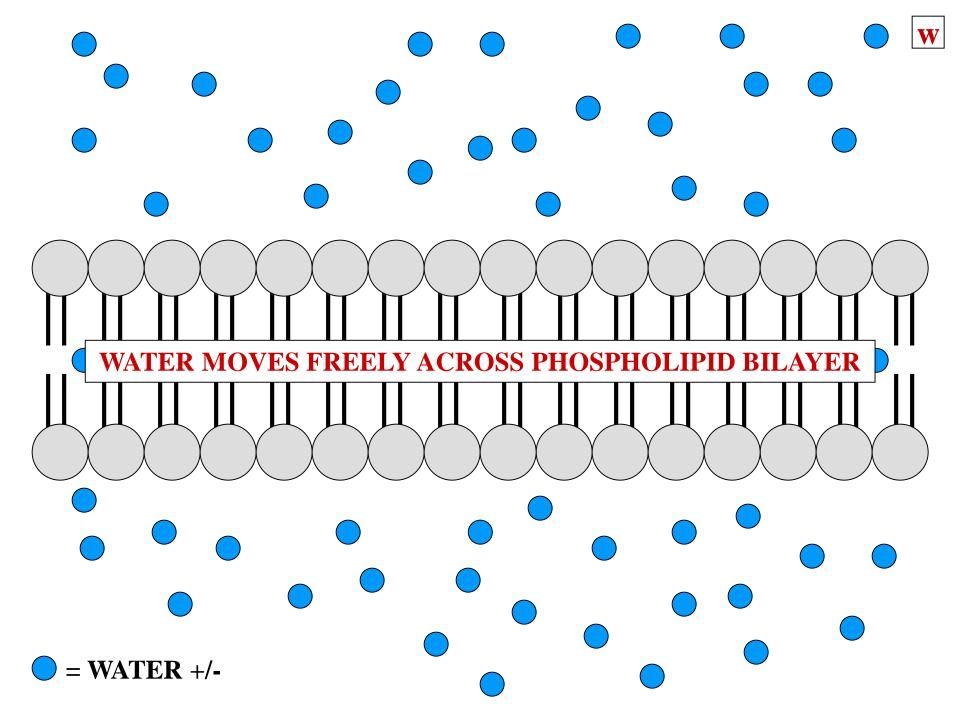
WATER POLAR

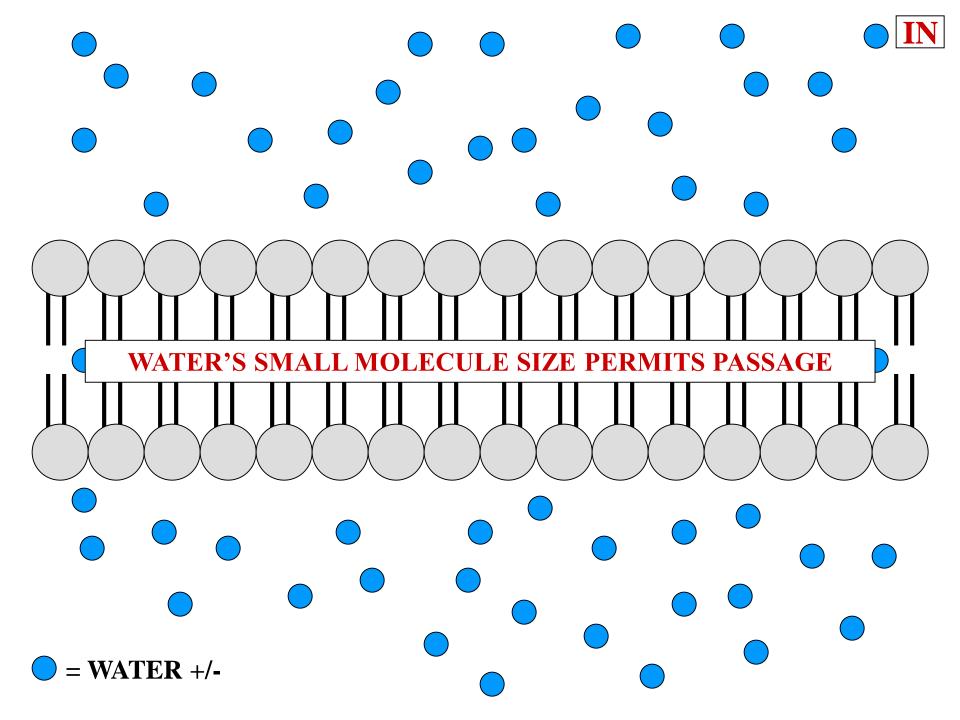


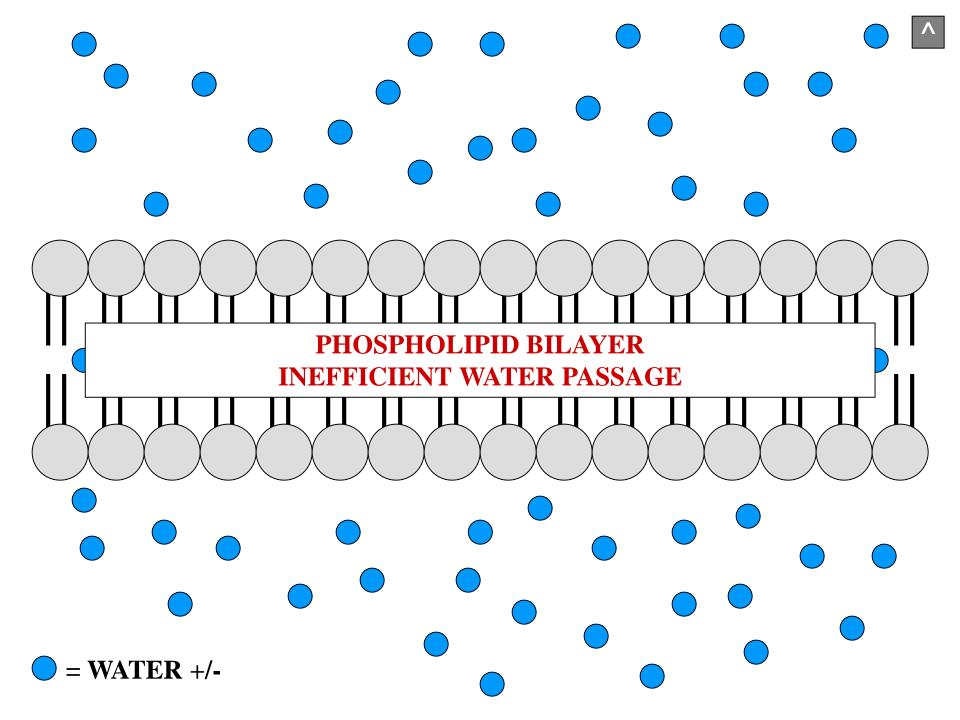




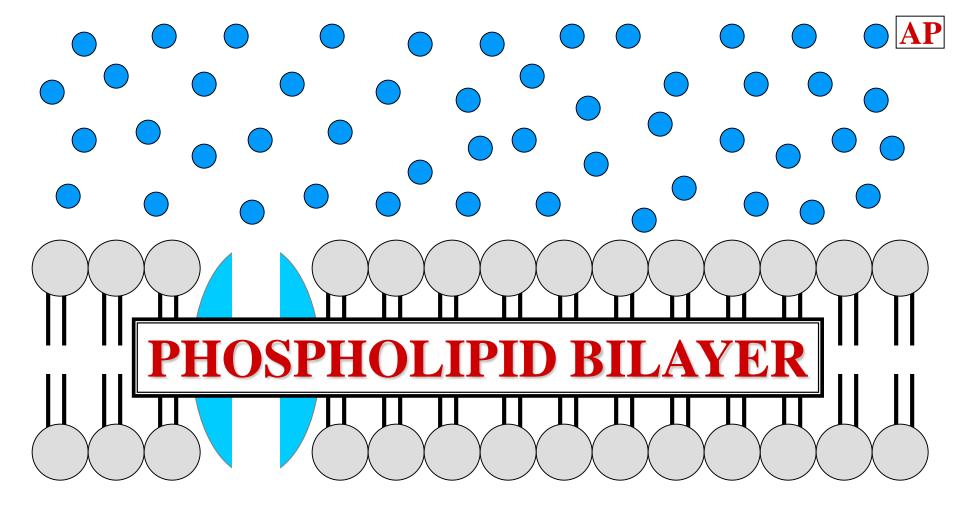




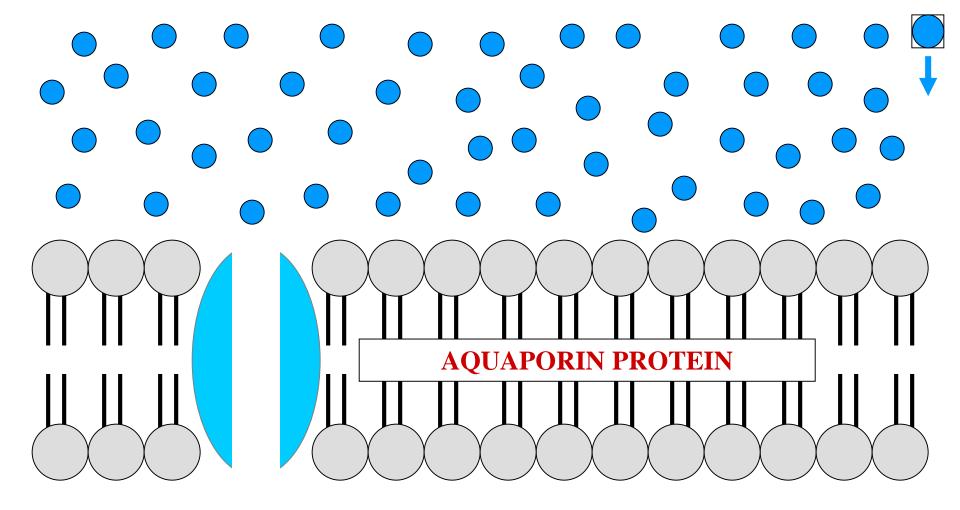




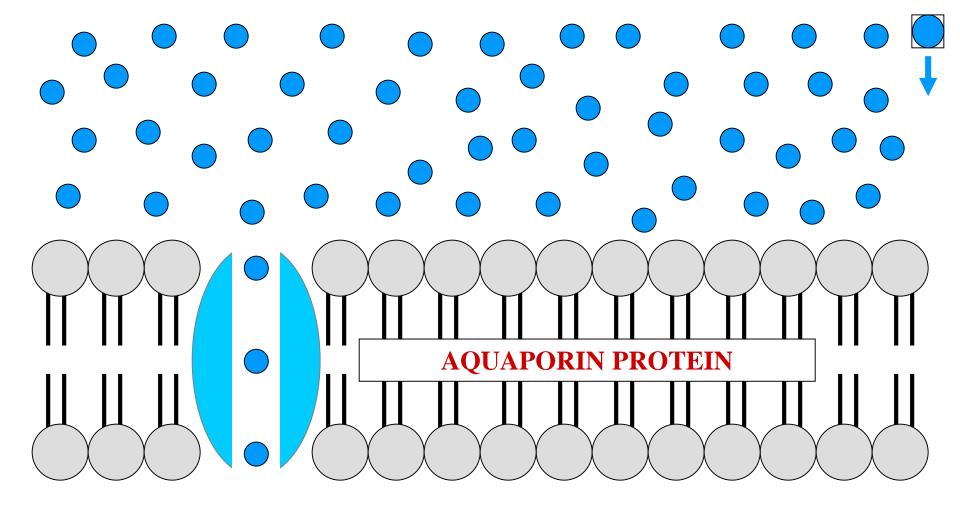
AQUAPORIN PROTEINS



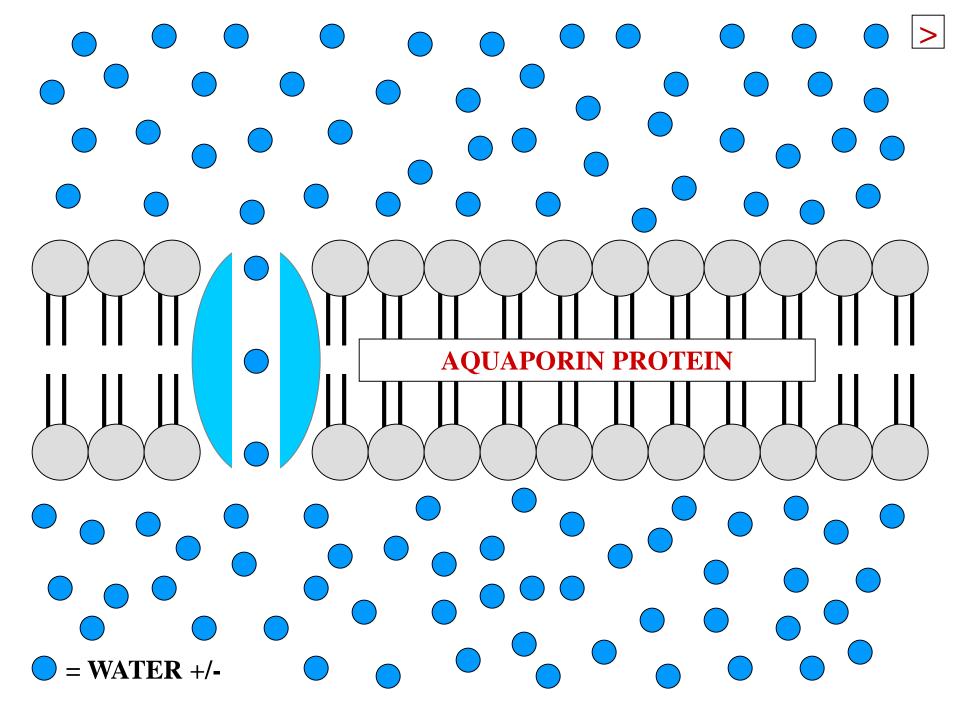


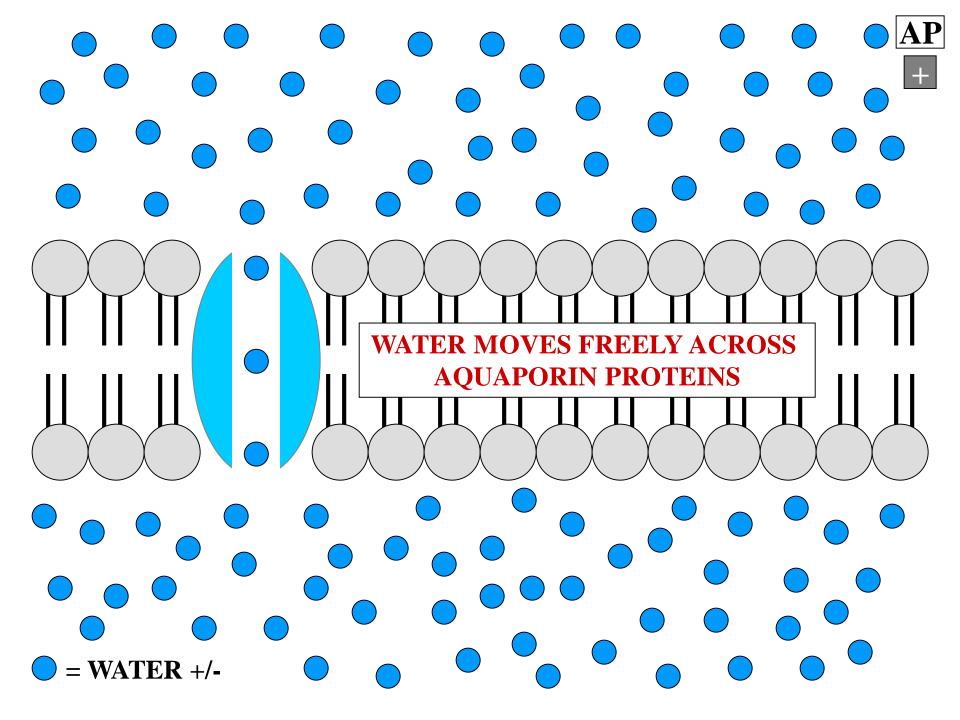










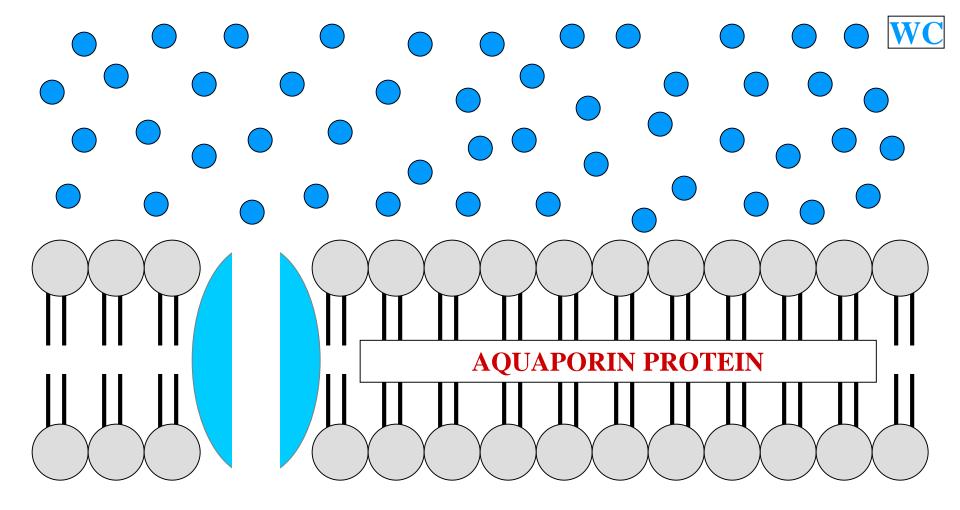


AQUAPORIN PROTEIN

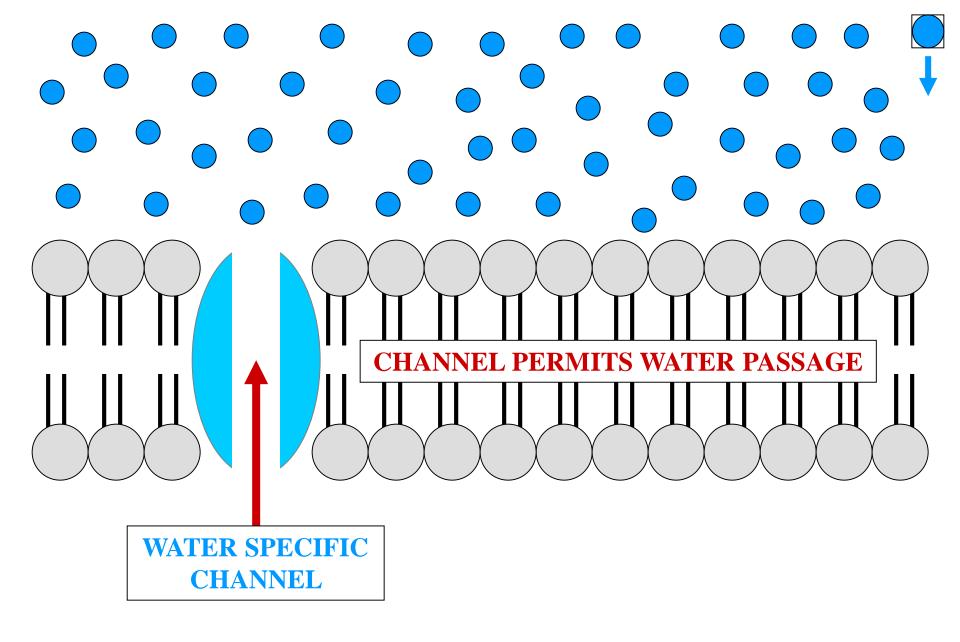
AQUAPORIN PROTEIN

WATER SPECIFIC CHANNEL PROTEIN

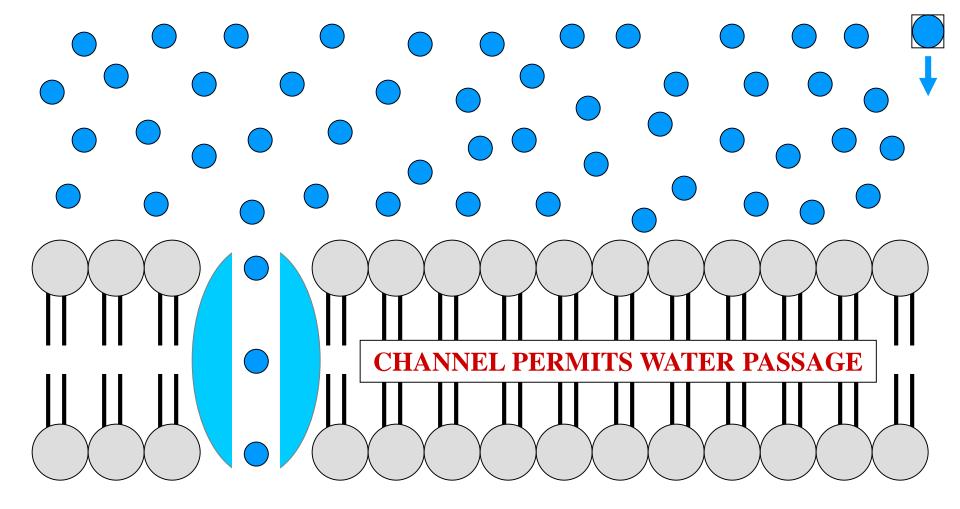
AQUAPORIN PROTEIN



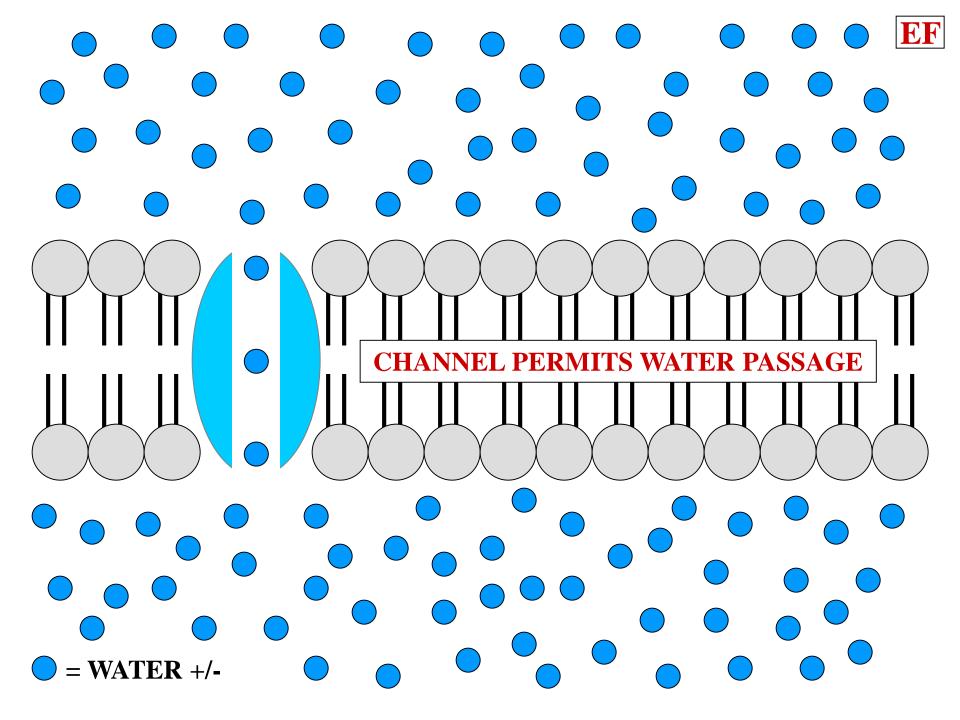


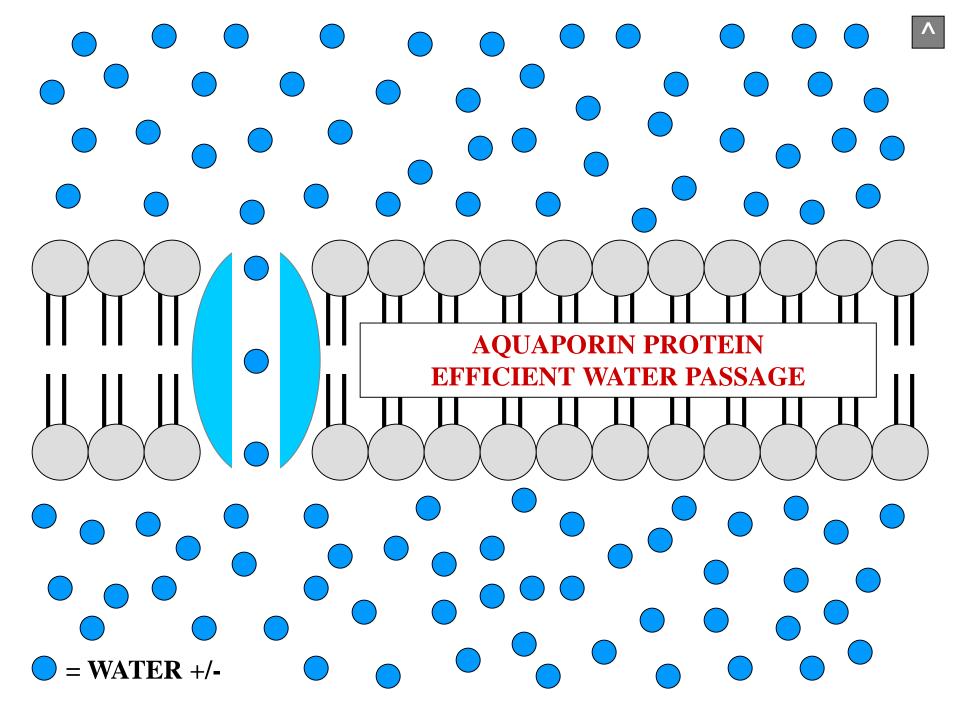




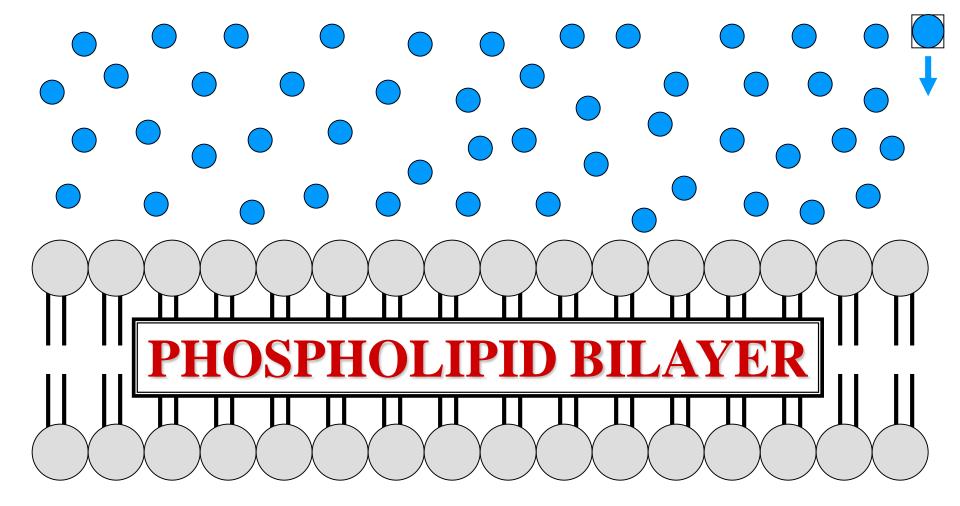




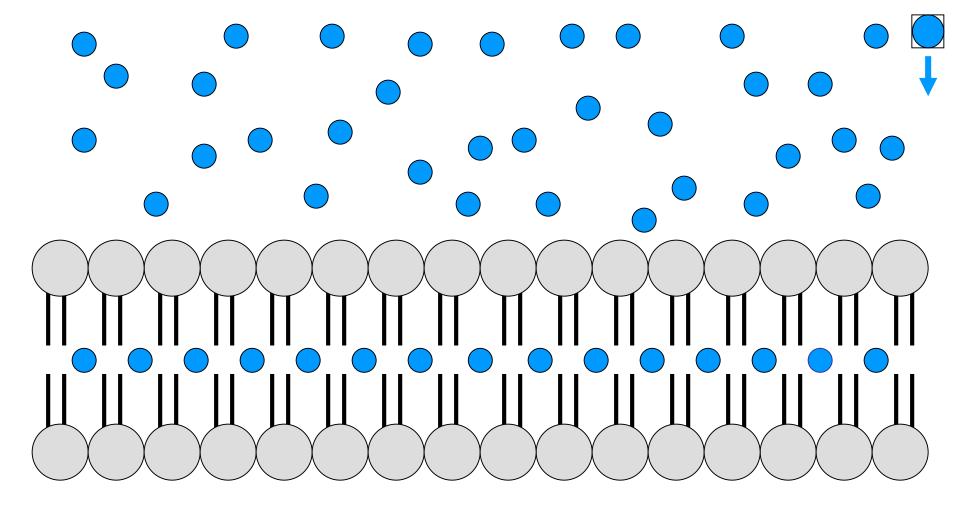




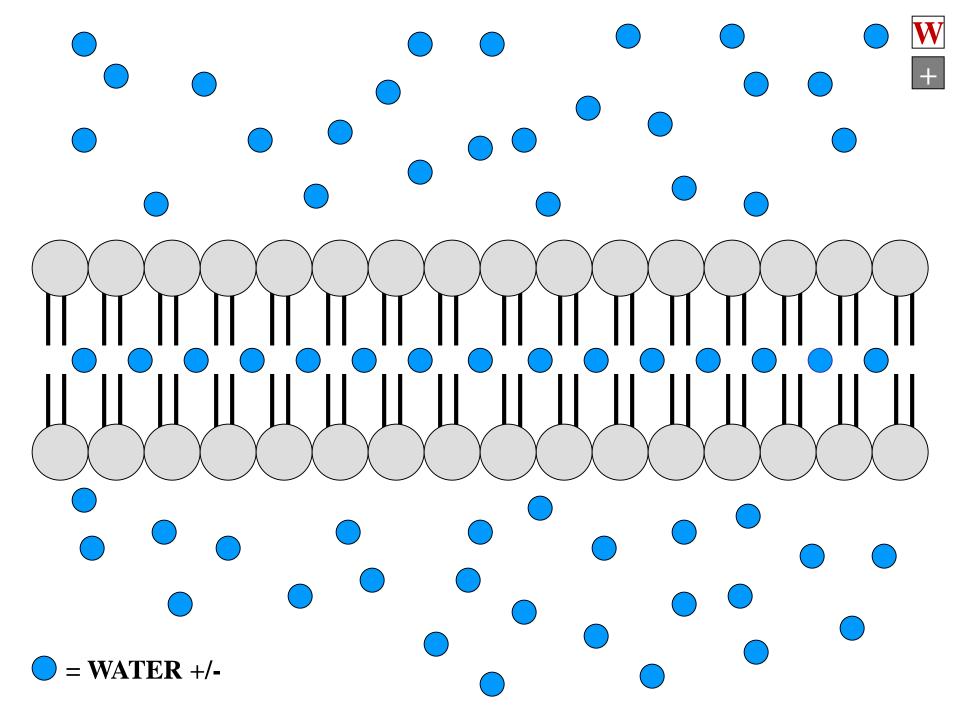
WATER MEMBRANE TRANSPORT SUMMARY

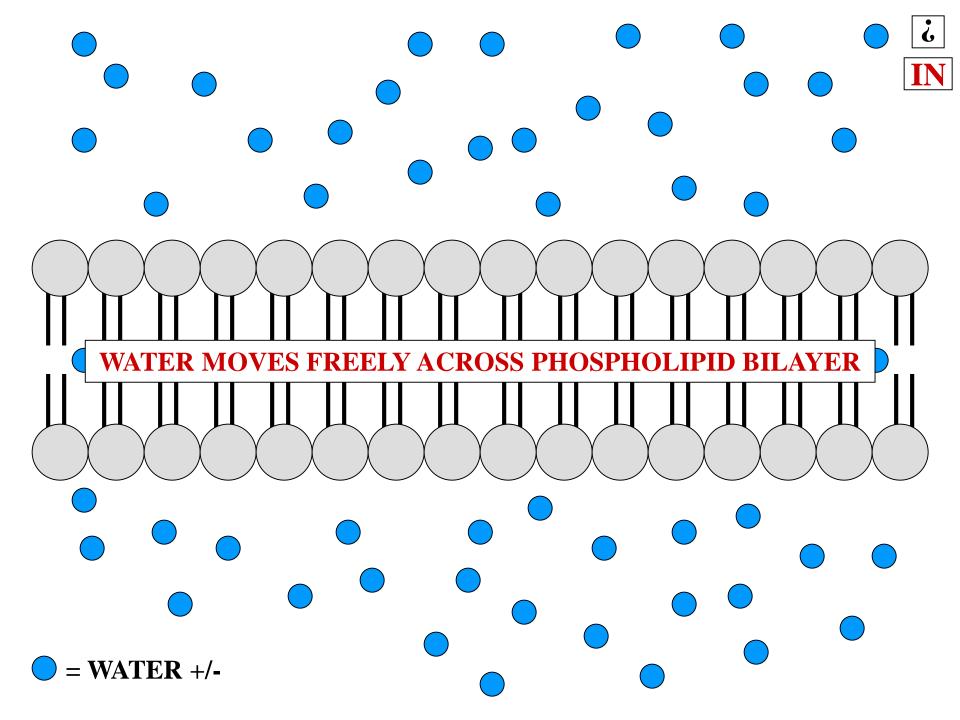


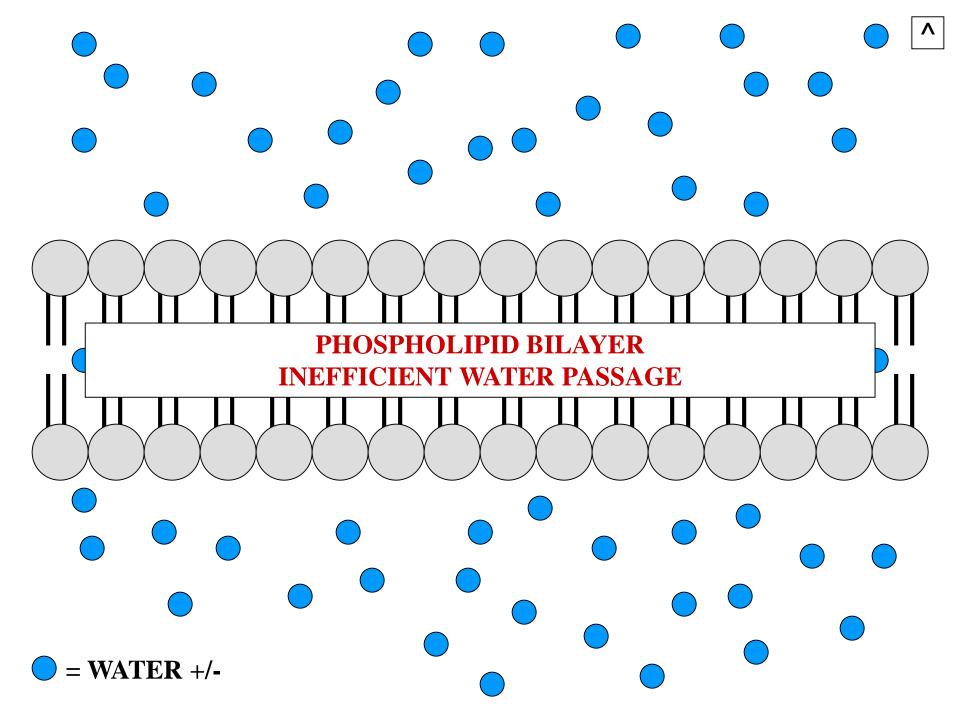


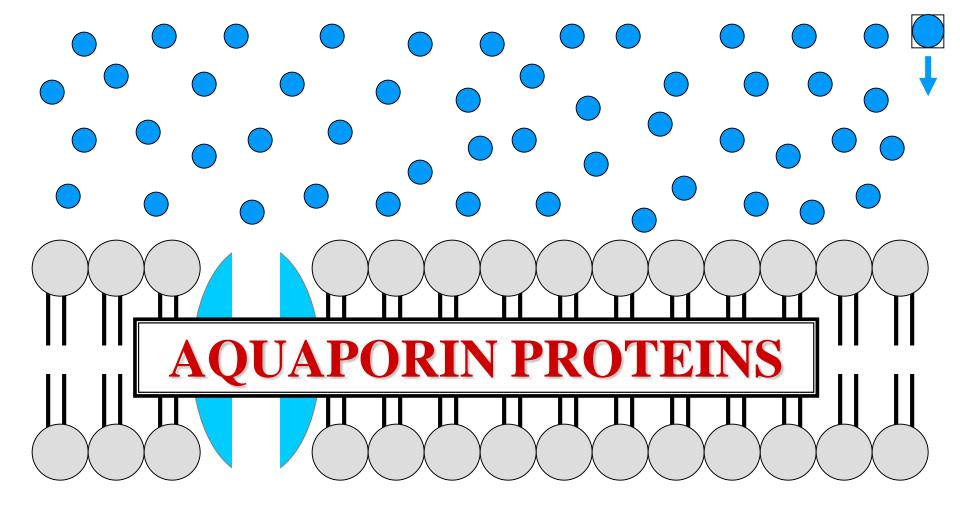




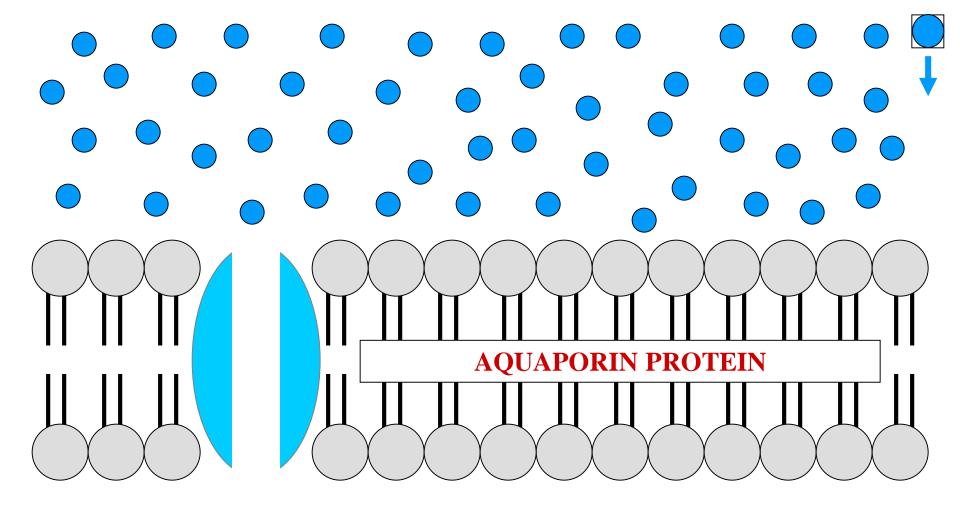




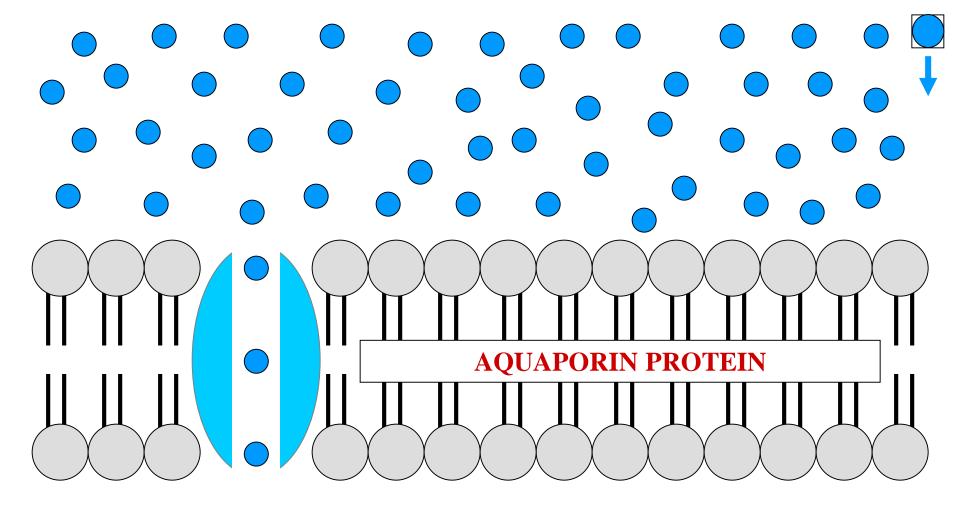




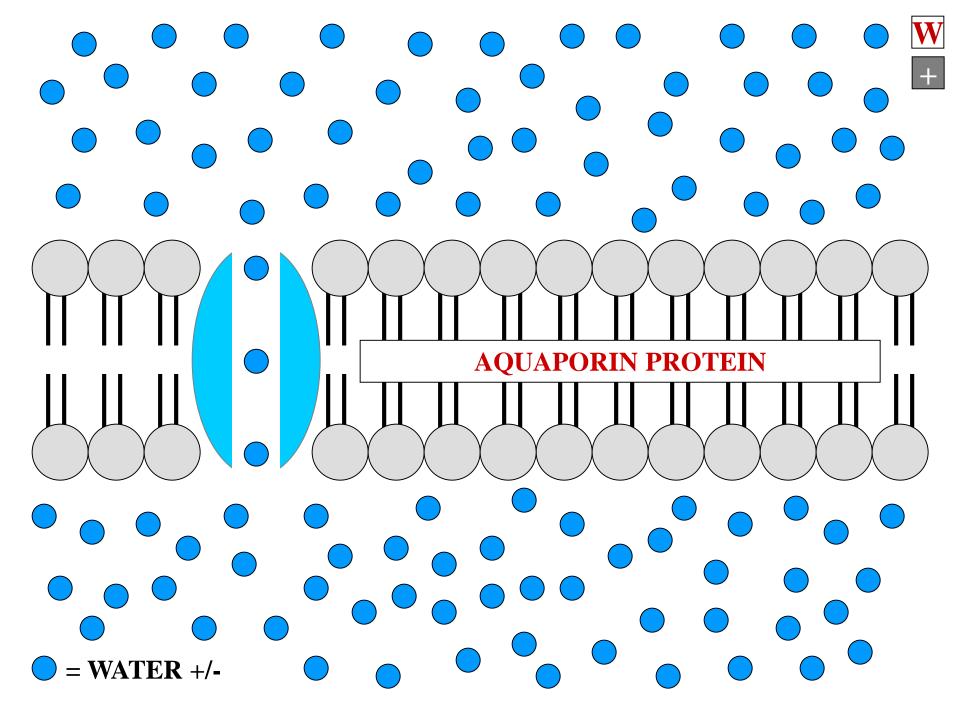


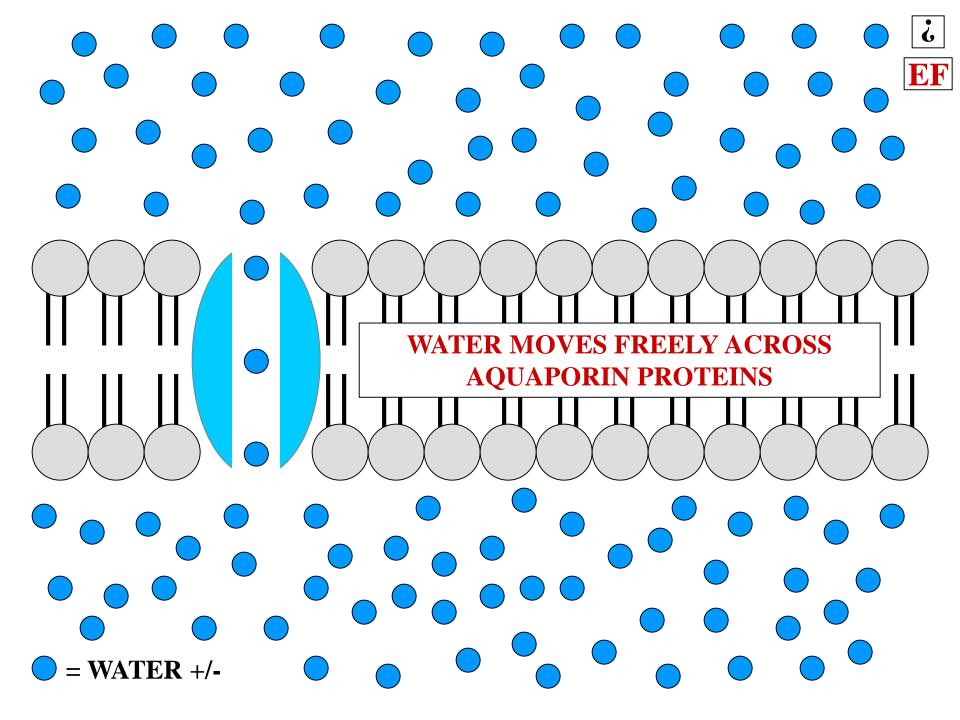


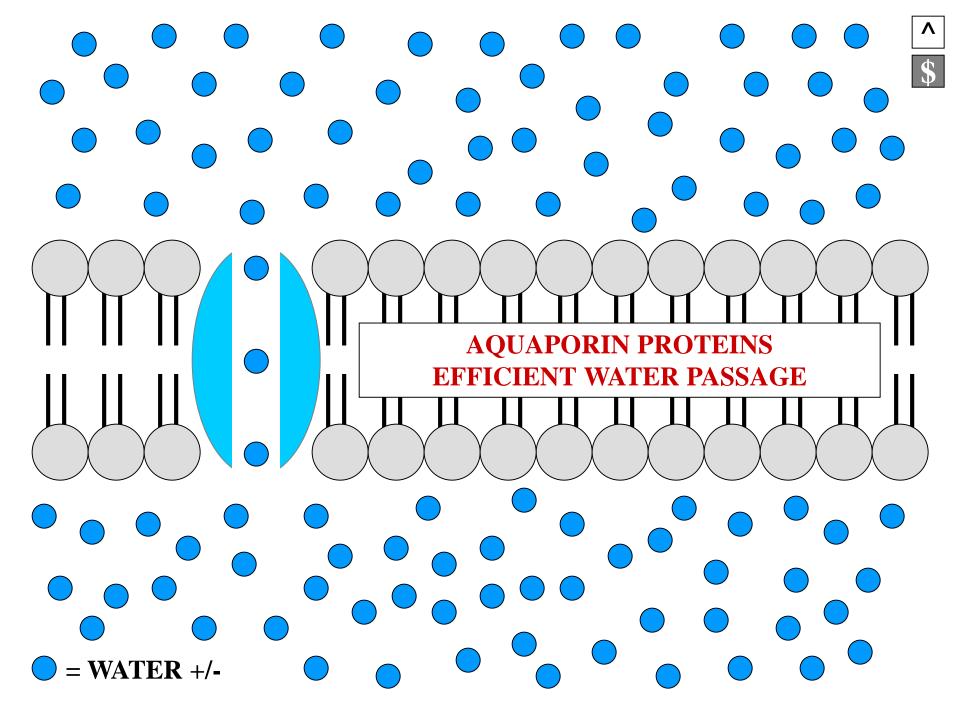


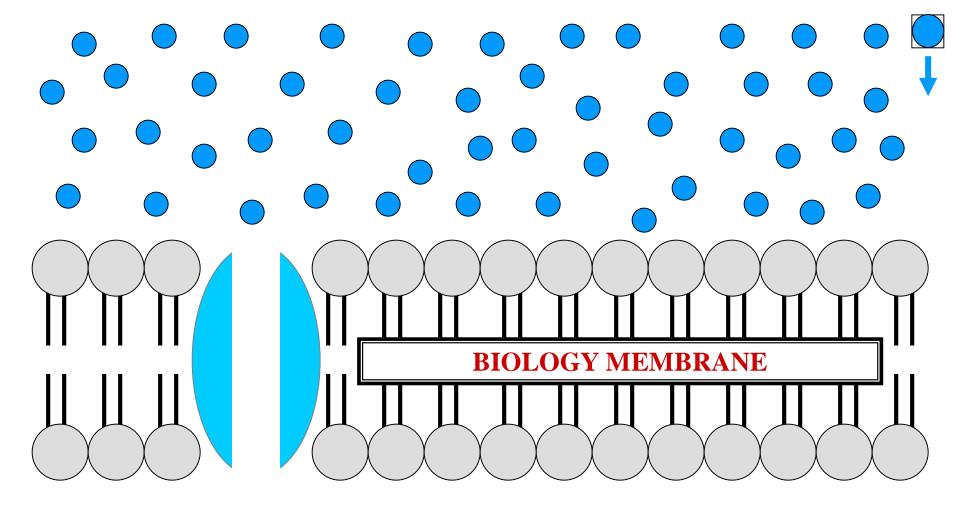




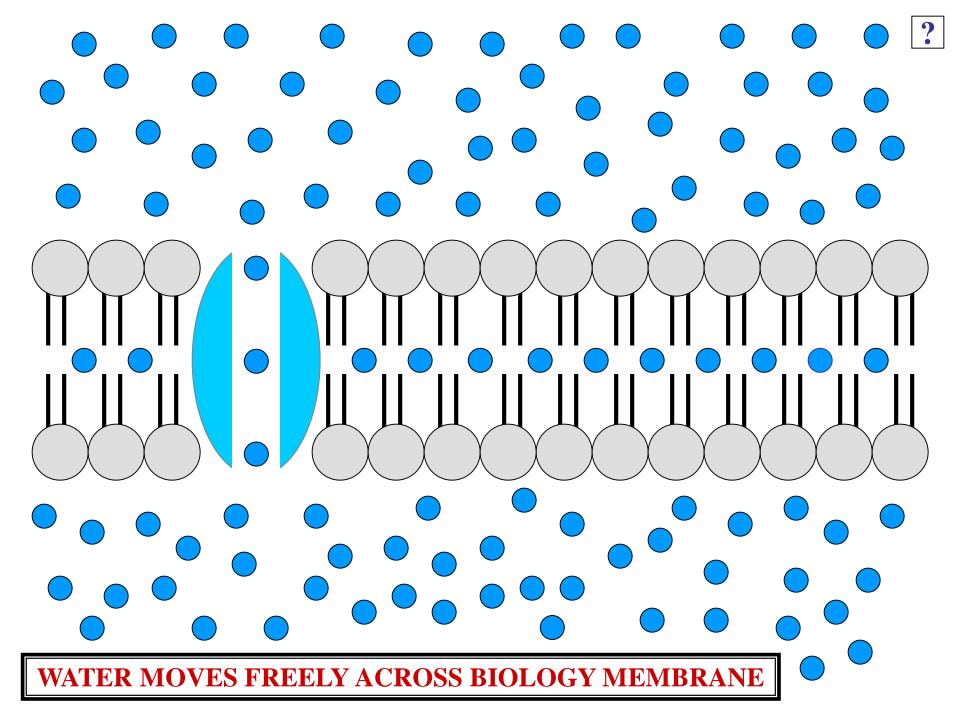














WHAT DO BIOLOGISTS **CALL WATER PASSAGE ACROSS A BIO-MEMBRANE IN RESPONSE TO SOLUTE CONCENTRATION?**

QUESTION



ANSWER

OSMOSIS

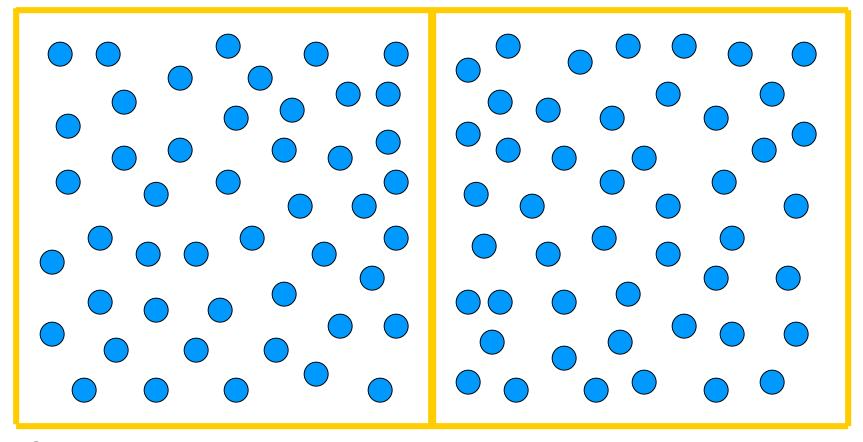
ANSWER



WATER PASSAGE ACROSS BIO-MEMBRANE IN RESPONSE TO SOLUTE CONCENTRATION







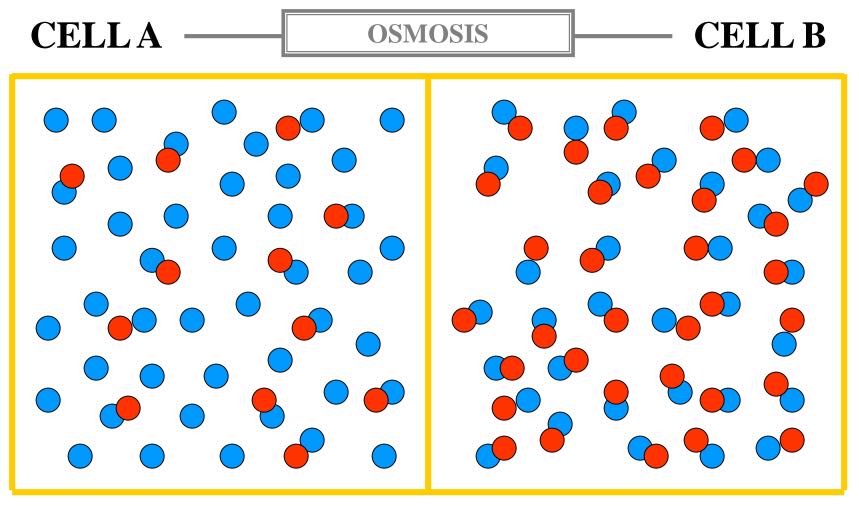
= WATER MOLECULE



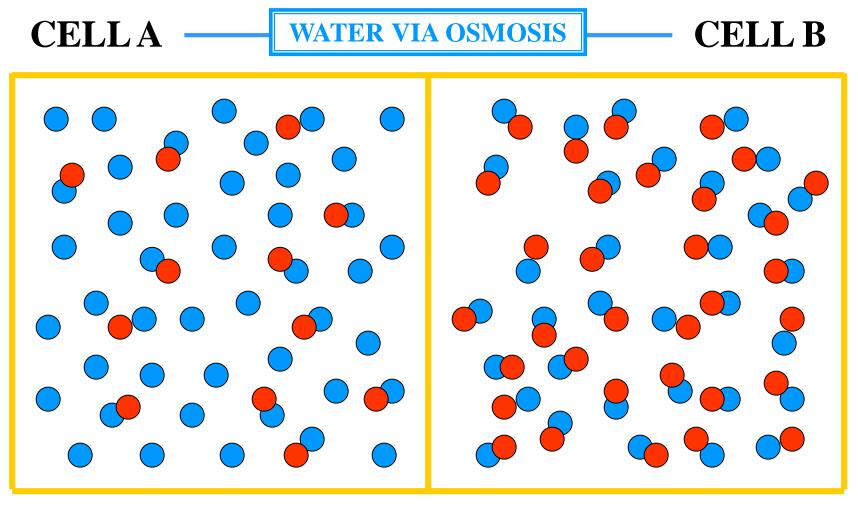
CELLA CELL B SOLUTE CON GRADIENT

- **= WATER MOLECULE**
- **= POLAR SOLUTE MOLECULE**
 - = MEMBRANE

W

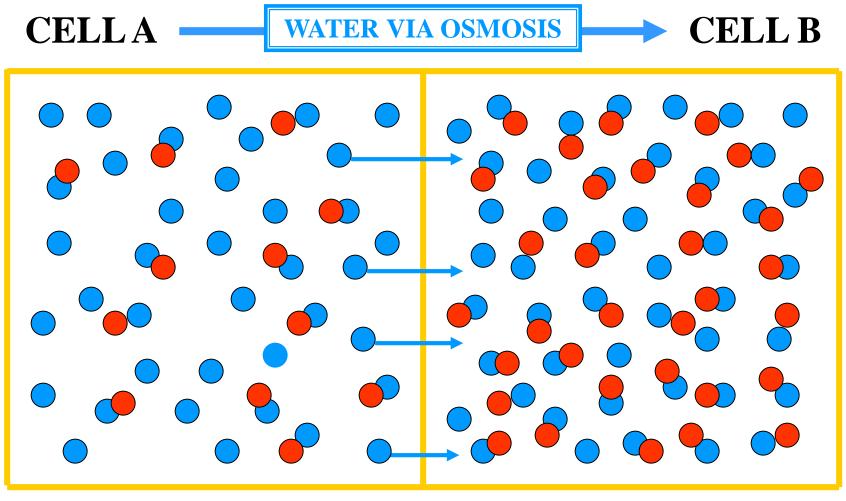


- **= WATER MOLECULE**
- **= POLAR SOLUTE MOLECULE**
 - = MEMBRANE

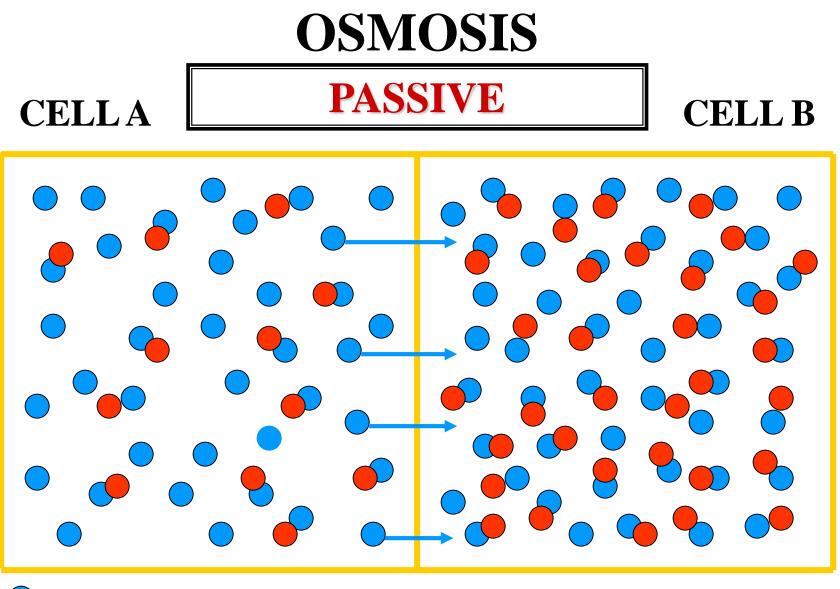


- **= WATER MOLECULE**
- **= POLAR SOLUTE MOLECULE**
 - = MEMBRANE





- **= WATER MOLECULE**
- = POLAR SOLUTE MOLECULE
 - = MEMBRANE



- **= WATER MOLECULE**
- **= POLAR SOLUTE MOLECULE**
 - = MEMBRANE

OSMOSIS EXPENSE: NO A **CELLA CELL B**

- **= WATER MOLECULE**
- **= POLAR SOLUTE MOLECULE**
 - = MEMBRANE



T

TONICITY

TONICITY

SOLUTION SOLUTE CONCENTRATION

TONICITY

ISOTONIC SOLUTIONS

ISOTONIC SOLUTIONS

Η

EQUAL SOLUTE CONCENTRATION

ISOTONIC SOLUTIONS

HYPOTONIC SOLUTION

HYPOTONIC SOLUTION

Η

LOWER SOLUTE CONCENTRATION

HYPOTONIC SOLUTION

HYPERTONIC SOLUTION



HYPERTONIC SOLUTION

HIGHER SOLUTE CONCENTRATION

HYPERTONIC SOLUTION



TONICITY TERMS APPLIED