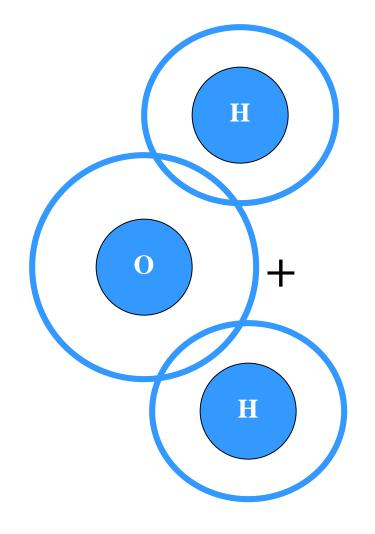


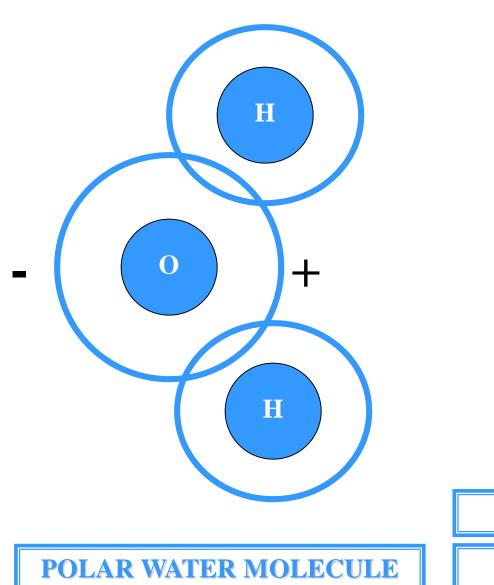
WATER MOLECULE





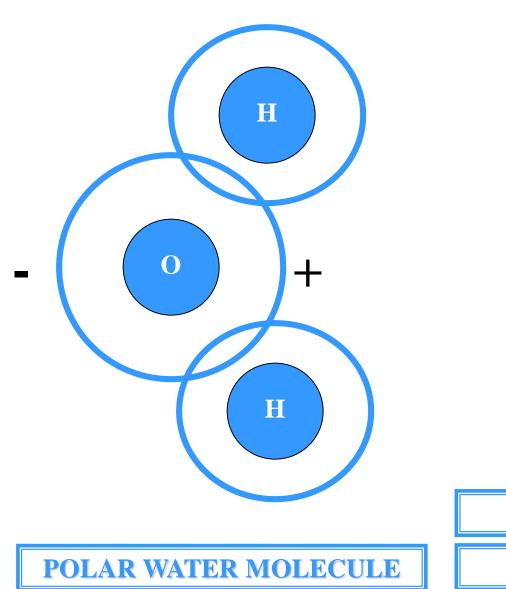
+ POSITIVE CHARGE

POLAR WATER MOLECULE

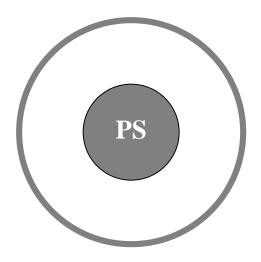


+ POSITIVE CHARGE

PS



- NEGATIVE CHARGE



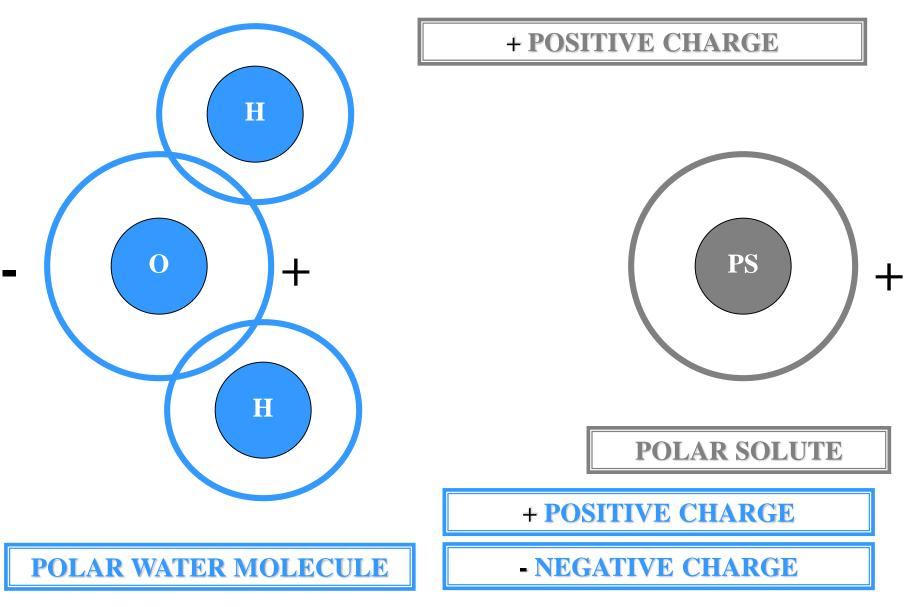
POLAR SOLUTE

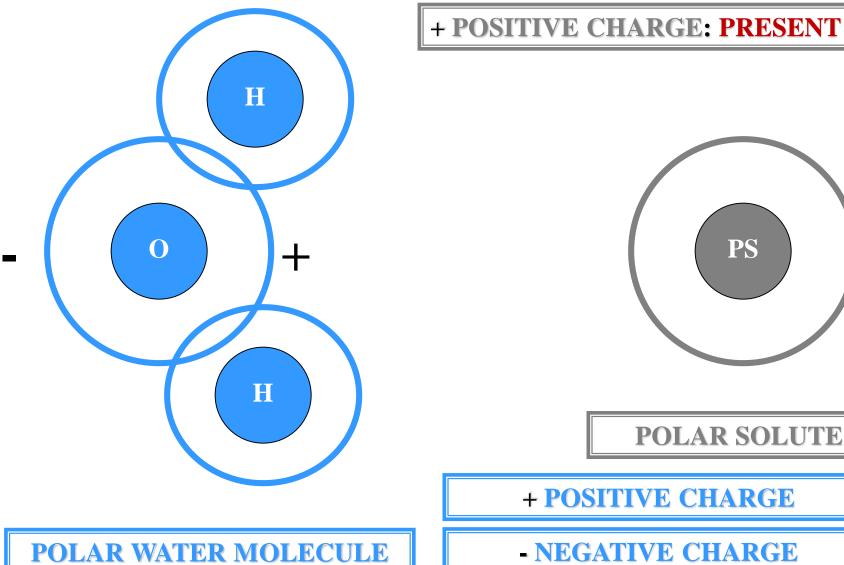
+ POSITIVE CHARGE



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PR





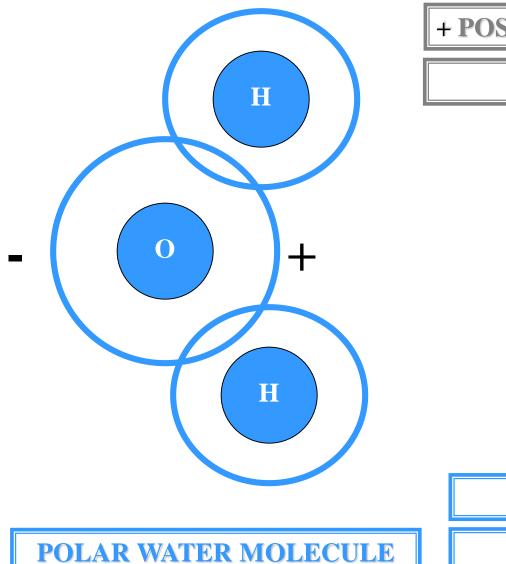
PS

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POLAR SOLUTE

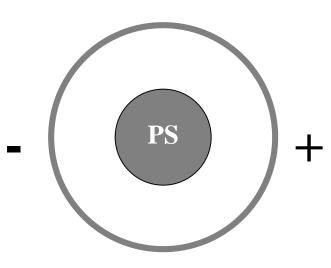
+ POSITIVE CHARGE





+ POSITIVE CHARGE: PRESENT

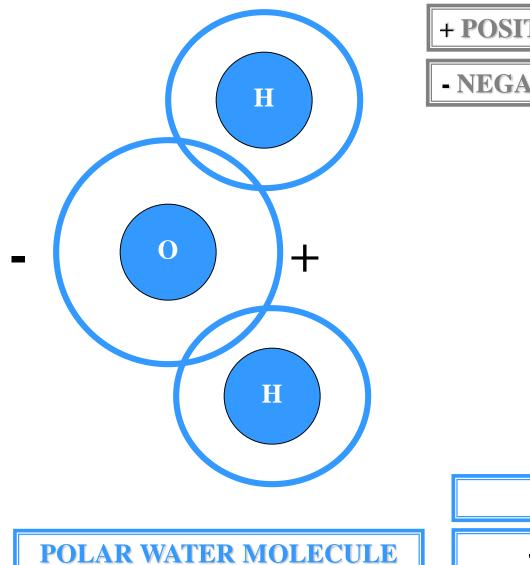
- NEGATIVE CHARGE



POLAR SOLUTE

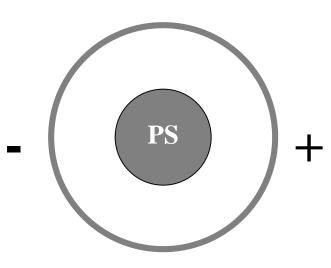
+ POSITIVE CHARGE





+ POSITIVE CHARGE: PRESENT

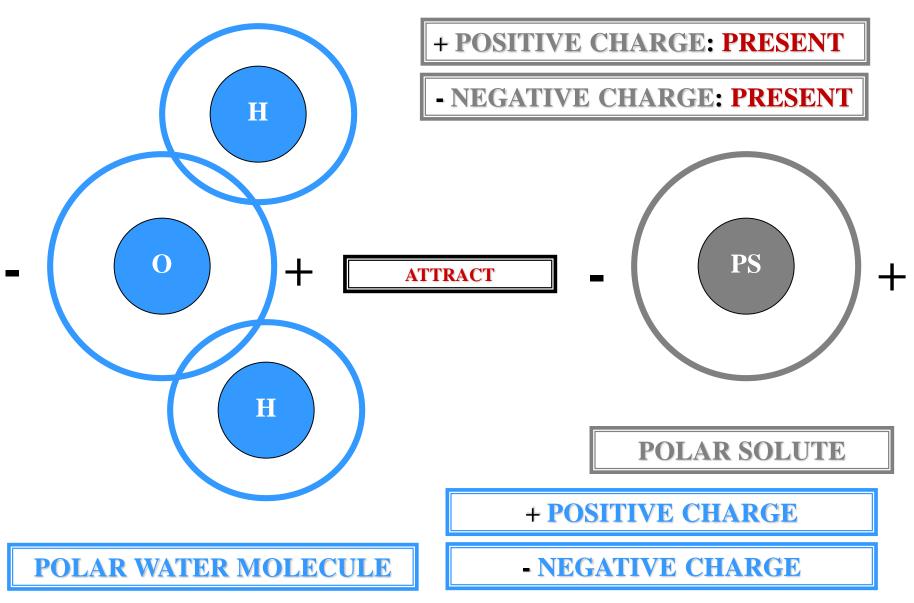
- NEGATIVE CHARGE: PRESENT



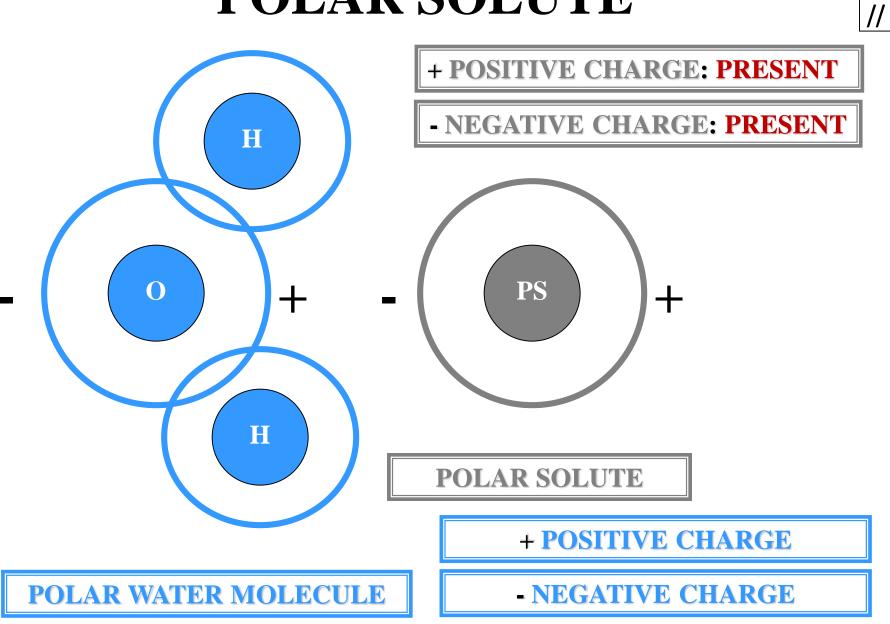
POLAR SOLUTE

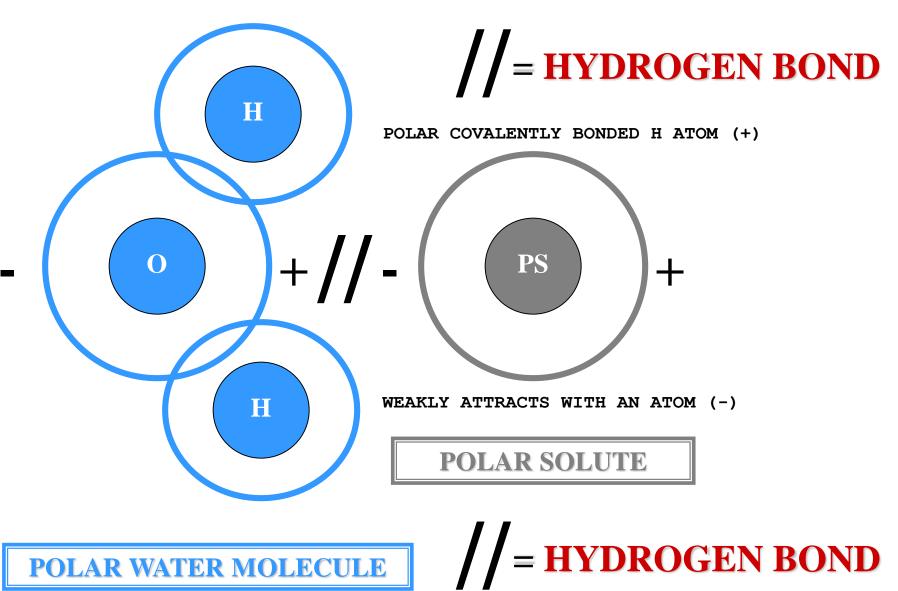
+ POSITIVE CHARGE

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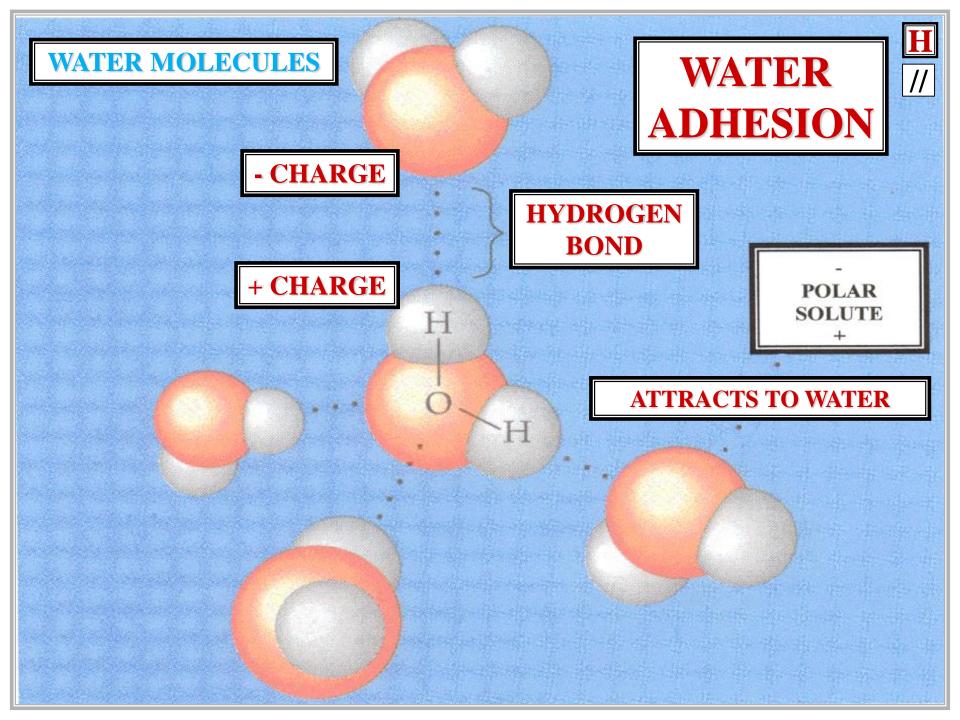


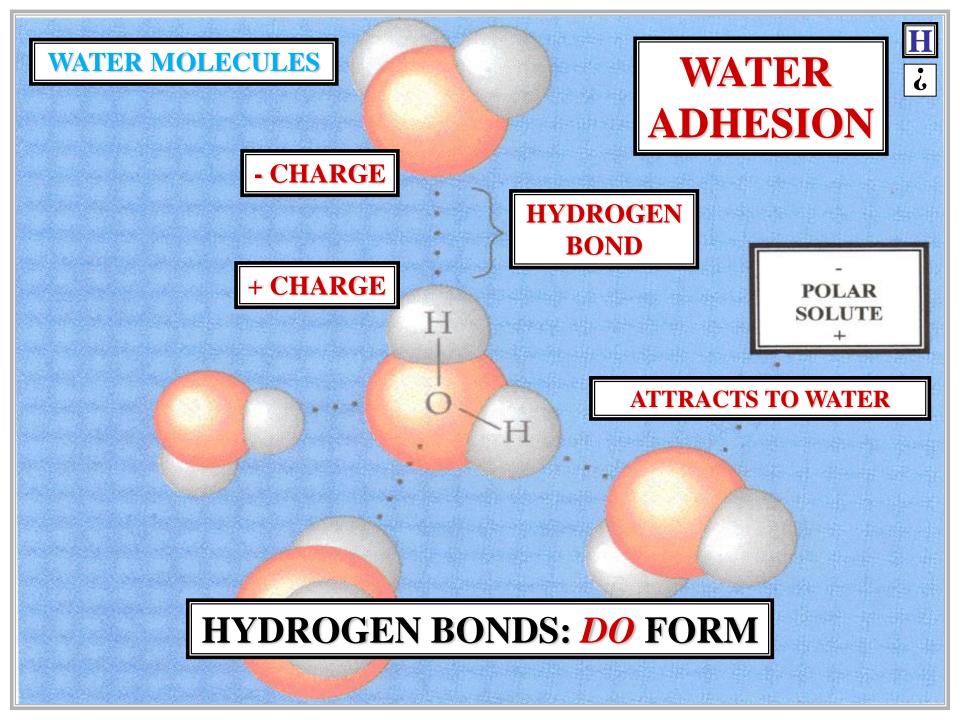


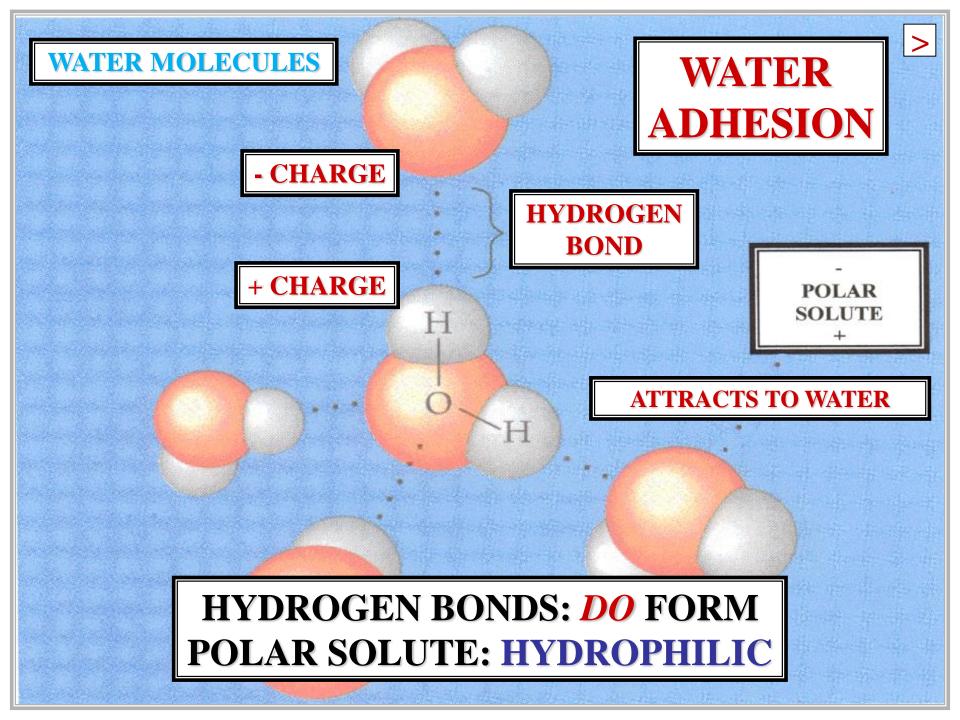
WATER BIO-IMPORTANT PROPERTIES POLAR SOLUTE

ATTRACTS WATER

WATER BIO-IMPORTANT PROPERTIES







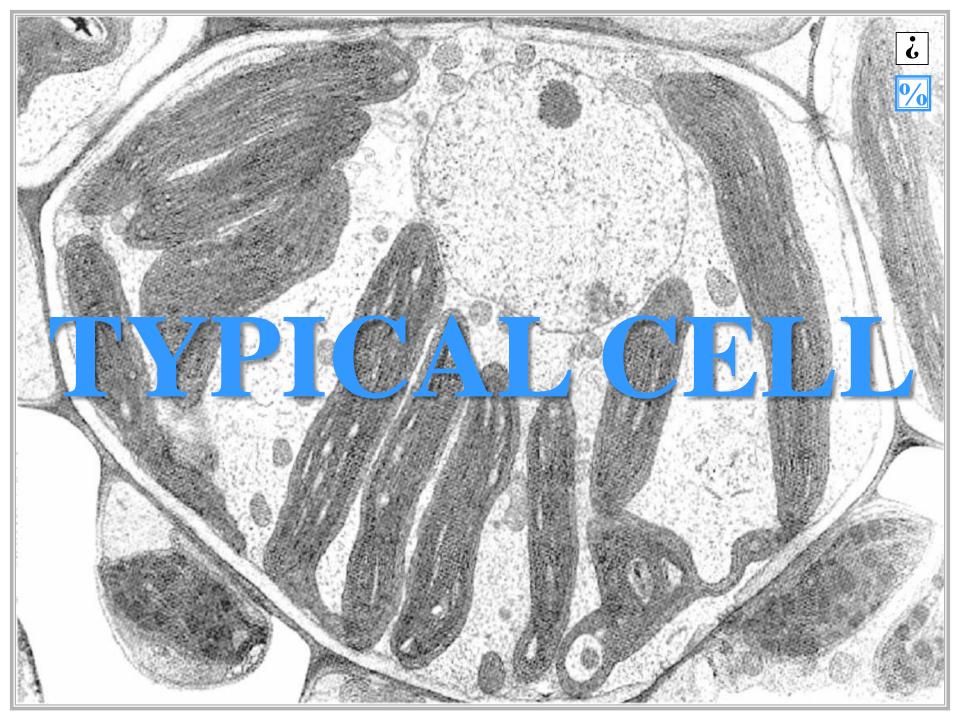
WATER BIO-IMPORTANT PROPERTIES

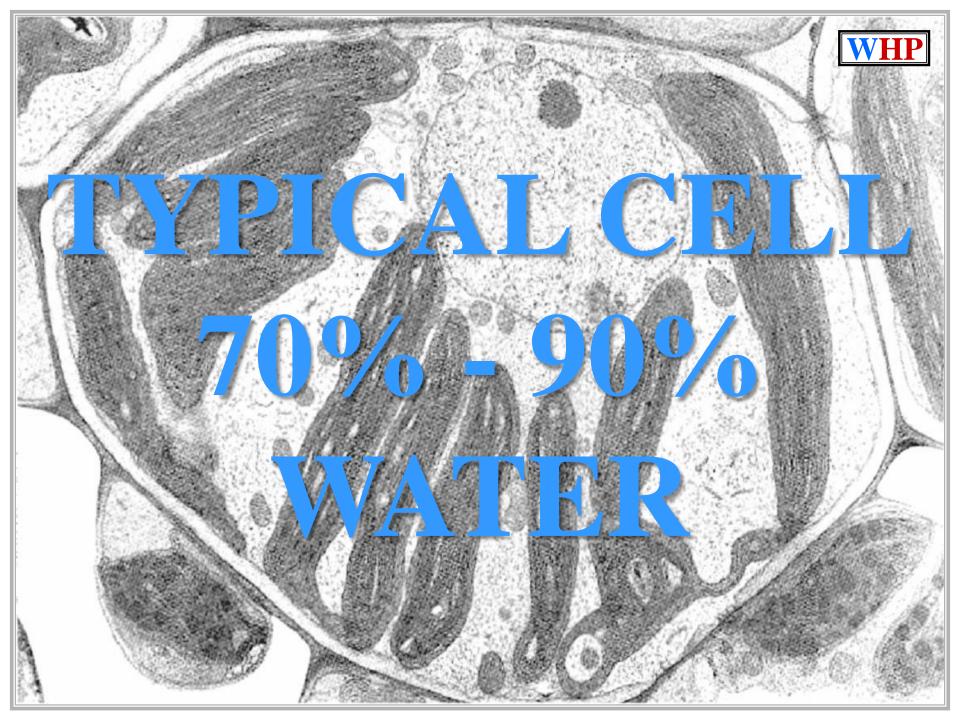
Λ WATER **UNDERGOES** ADHESION POLAR SOLUTES

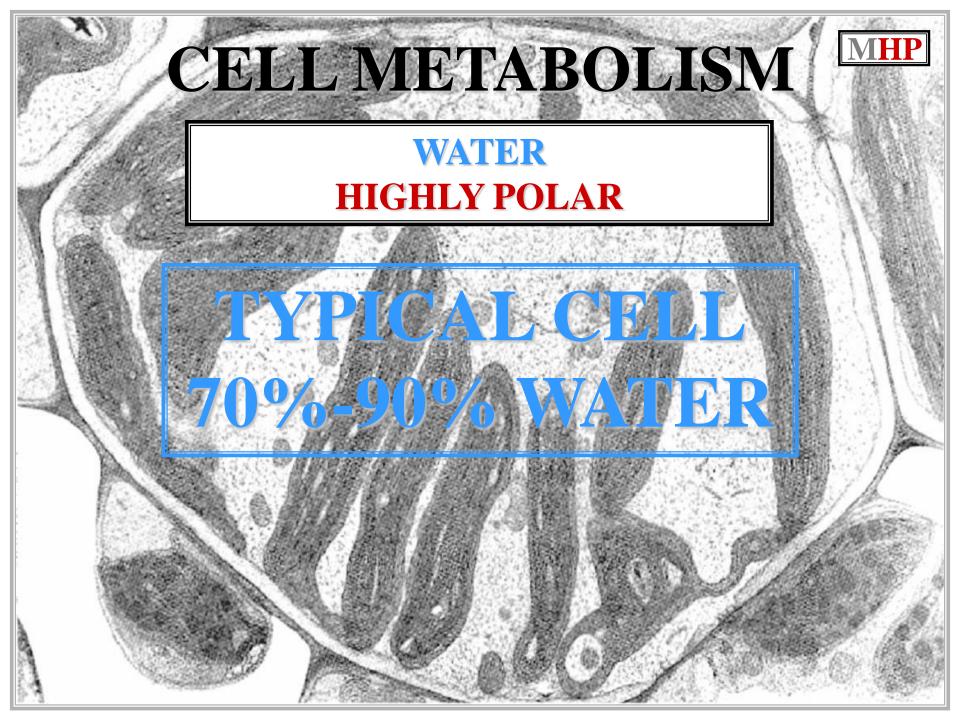
WATER BIO-IMPORTANT PROPERTIES

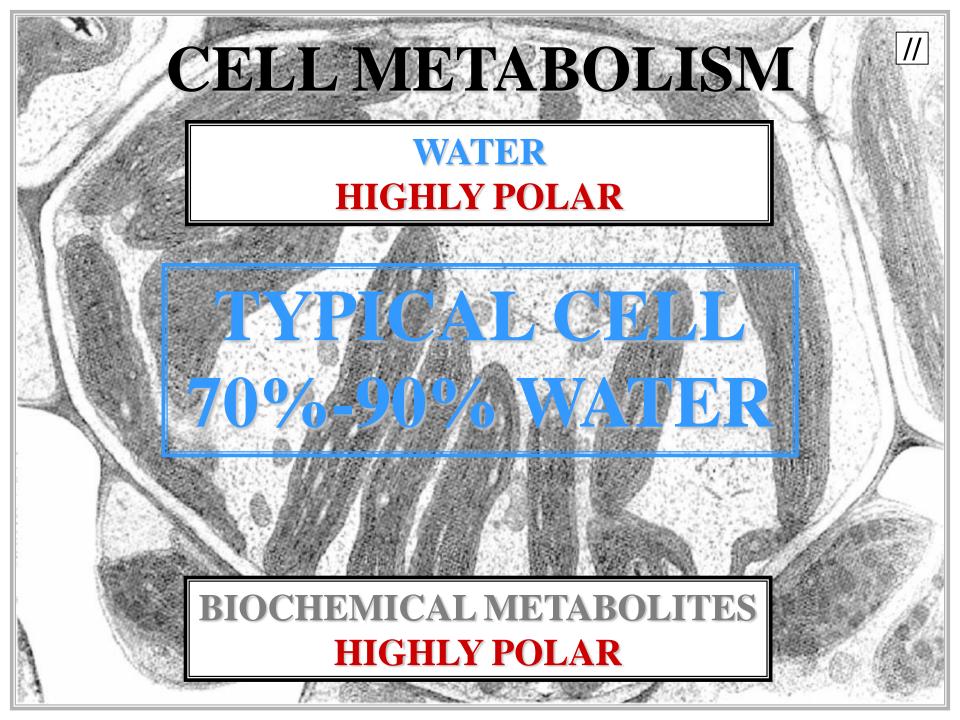


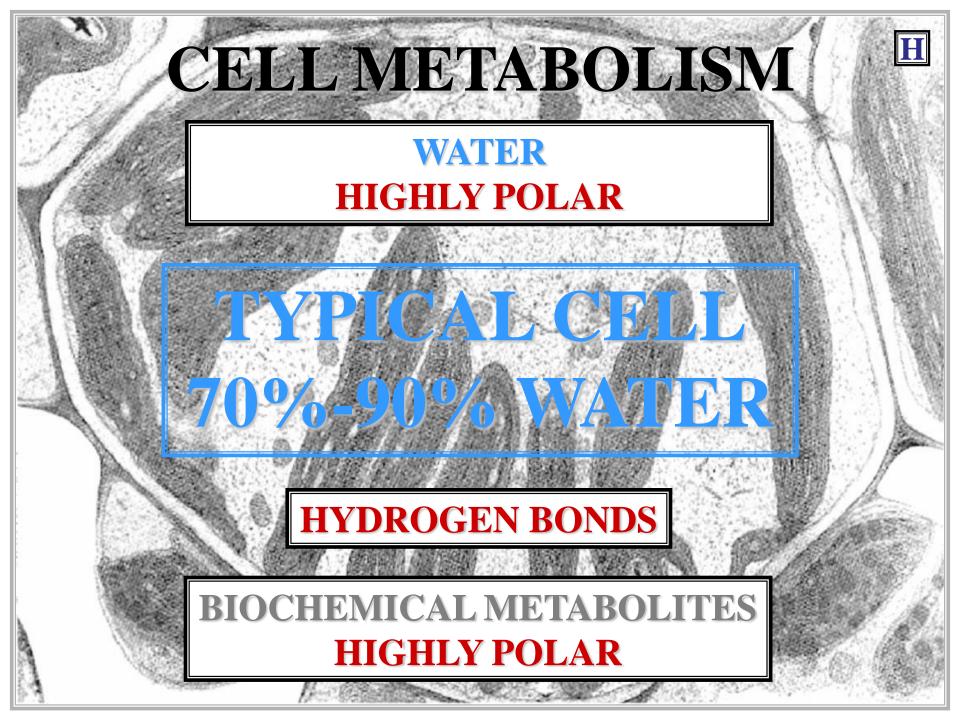
POLAR-SOLUTES X CELL METABOLISM **APPILED**

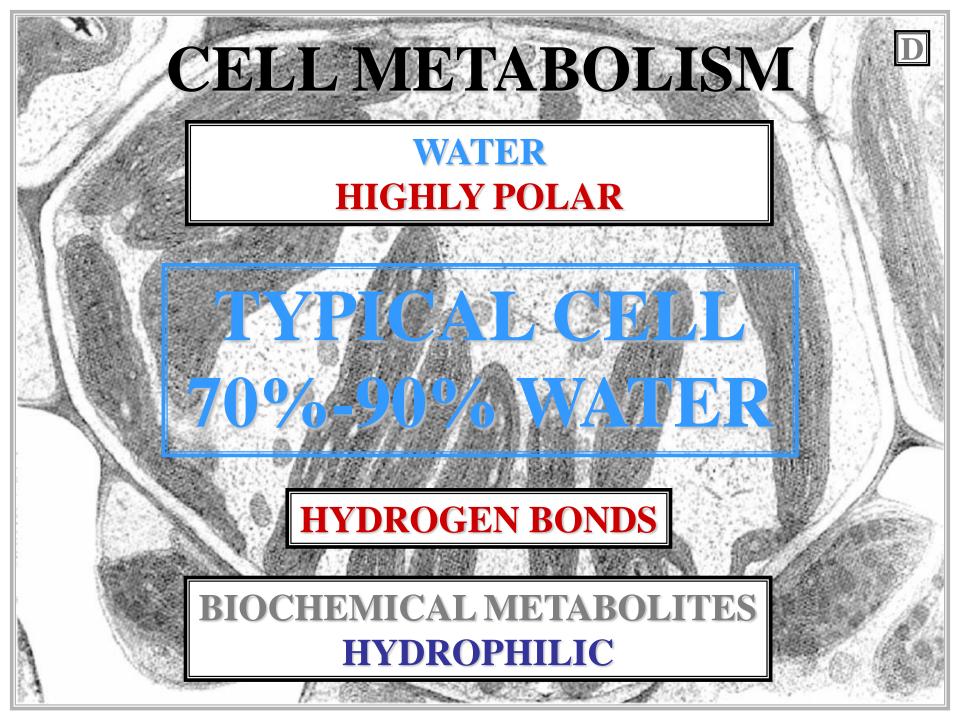


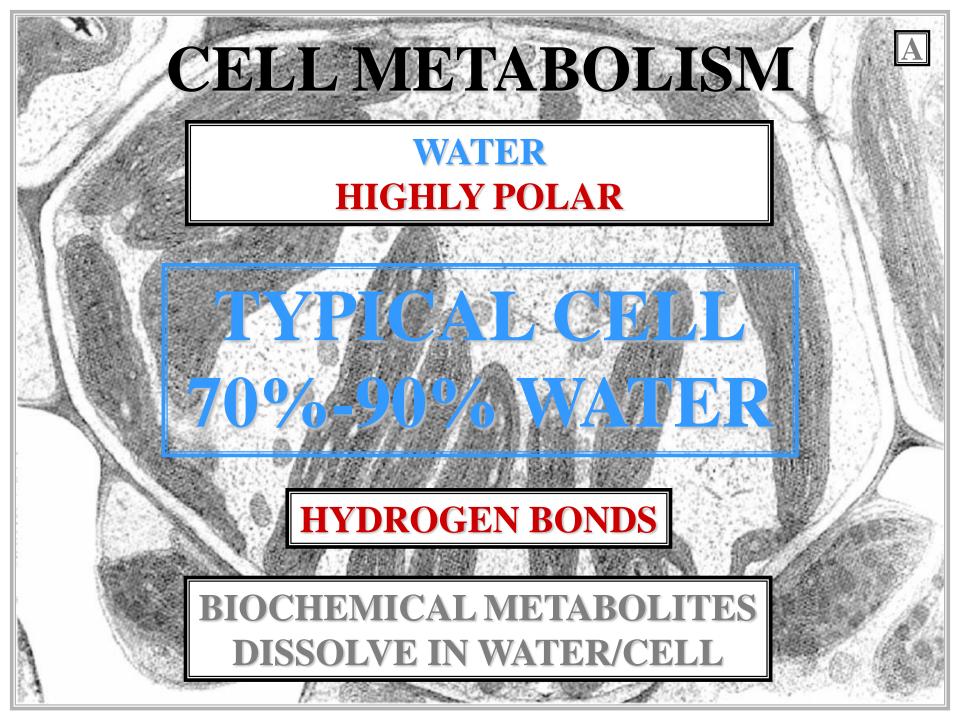


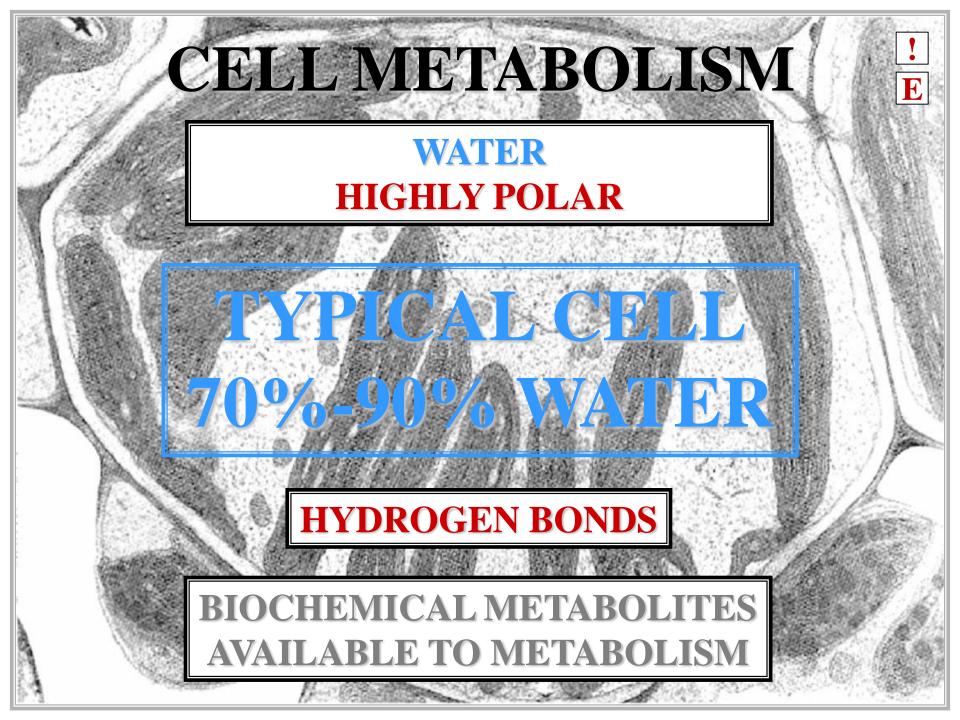


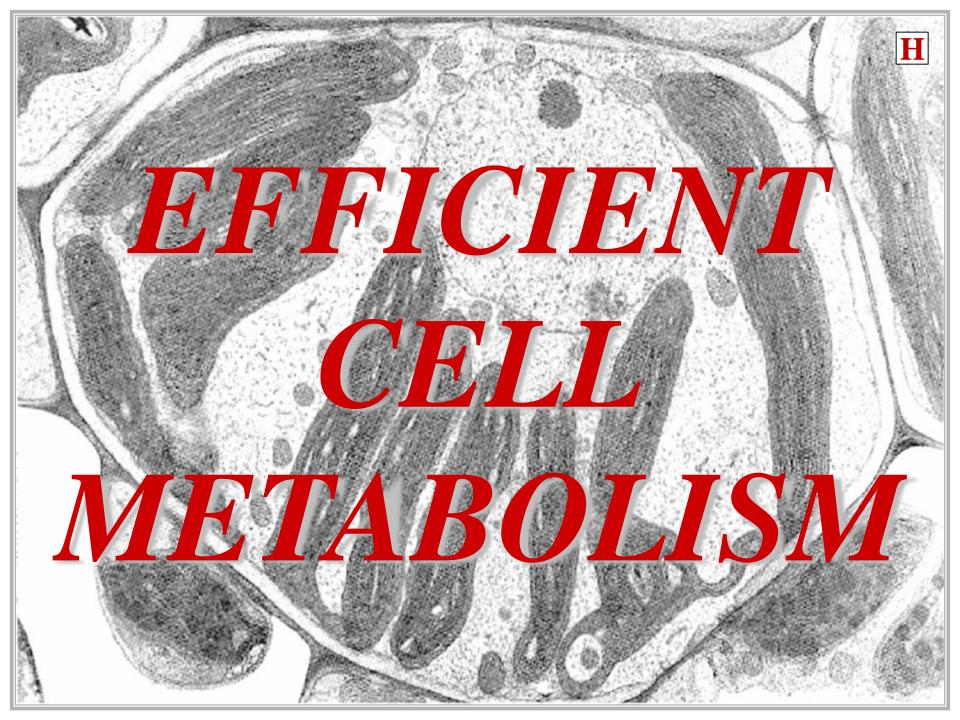














WATER BIO-IMPORTANT PROPERTIES

WATER VERSITIE BIO-SOLVENT

WATER BIO-IMPORTANT PROPERTIES

Λ



S

SPECIFIC HEAT

SPECIFIC HEAT

HEAT ABSORBED OR LOST TO CHANGE 1 G OF ANY SUBSTANCE 1 DEGREE C

SPECIFIC HEAT



CALORIE

CALORIE

T

HEAT ENERGY NEEDED TO RAISE 1 G OF WATER 1 DEGREE C

CALORIE

TEMPERATURE



TEMPERATURE

MEASURE MOLECULAR MOVEMENT

TEMPERATURE

CALORIE VS TEMPERATURE APPLIED

EXPEND MORE CALORIES

EXPEND MORE CALORIES MORE ENERGY RELEASED

EXPEND MORE CALORIES MORE ENERGY RELEASED MOLECULAR MOVEMENT INCREASES

CALORIE / TEMPERATURE EXPEND MORE CALORIES MORE ENERGY RELEASED MOLECULAR MOVEMENT INCREASES TEMPERATURE INCREASES CALORIE / TEMPERATURE

EXPEND FEWER CALORIES

EXPEND FEWER CALORIES LESS ENERGY RELEASED

EXPEND FEWER CALORIES LESS ENERGY RELEASED MOLECULAR MOVEMENT DECREASES

CALORIE / TEMPERATURE EXPEND FEWER CALORIES LESS ENERGY RELEASED MOLECULAR MOVEMENT DECREASES TEMPERATURE DECREASES **CALORIE / TEMPERATURE**



SPECIFIC HEAT WATER: APPLIED

SPECIFIC HEAT: APPLIED SH1G WATER1G ETHANOL

SPECIFIC HEAT: APPLIED11G WATER1G ETHANOL

SPECIFIC HEAT

SPECIFIC HEAT: APPLIED ^{II} 1G WATER 1G ETHANOL 1 CAL / G

SPECIFIC HEAT: APPLIED ? 1G WATER 1G ETHANOL 1 CAL / G

10 CAL / G EXPEND

SPECIFIC HEAT: APPLIED ¹⁰ 1G WATER 1G ETHANOL 1 CAL / G

- 10 CAL / G EXPEND
 - ? DEGREES C

SPECIFIC HEAT: APPLIED SH **1G WATER 1G ETHANOL** 1 CAL/G**10 CAL / G EXPEND 10** DEGREES C

SPECIFIC HEAT: APPLIED51G WATER1G ETHANOL

1 CAL / G SPECIFIC HEAT

- 10 CAL/G EXPEND
- **10 DEGREES C**

SPECIFIC HEAT: APPLIED 10 **1G WATER 1G ETHANOL** 1 CAL/G.5 CAL / G **10 CAL / G EXPEND 10 DEGREES C**

SPECIFIC HEAT: APPLIED ? **1G WATER 1G ETHANOL** .5 CAL/G 1 CAL/G**10 CAL / G 10 CAL / G EXPEND EXPEND 10** DEGREES C

SPECIFIC HEAT: APPLIED 20 **1G WATER 1G ETHANOL 1 CAL / G** .5 CAL/G **10 CAL / G 10 CAL / G EXPEND EXPEND** ? DEGREES C **10** DEGREES C

SPECIFIC HEAT: APPLIED ? **1G WATER 1G ETHANOL 1 CAL / G** .5 CAL/G **10 CAL / G 10 CAL / G EXPEND EXPEND 10 DEGREES C 20 DEGREES C**

QUESTION WHICH OF THE **PRECEDING WATER OR ETHANOL RESISTS TEMPERATURE CHANGE? OUESTION**

SPECIFIC HEAT: APPLIED 1G WATER 1G ETHANOL 1 CAL/G.5 CAL / G **10 CAL / G** 10 CAL/GEXPEND **EXPEND 20 DEGREES C 10 DEGREES C**

SPECIFIC HEAT: APPLIED 1G ETHANOL 1G WATER 1 CAL/G.5 CAL/G **10 CAL / G 10 CAL / G EXPEND EXPEND 10 DEGREES C 20 DEGREES C** WATER

RESISTS TEMPERATURE CHANGE

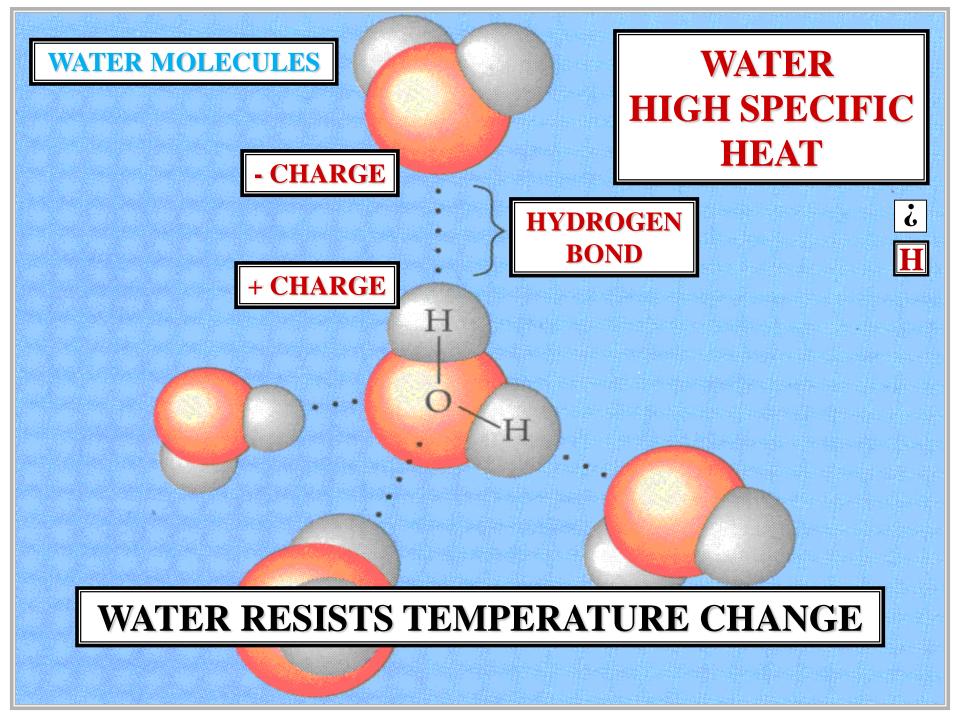
QUESTION WHICH OF THE **PRECEDING WATER OR ETHANOL RESISTS TEMPERATURE CHANGE? OUESTION**

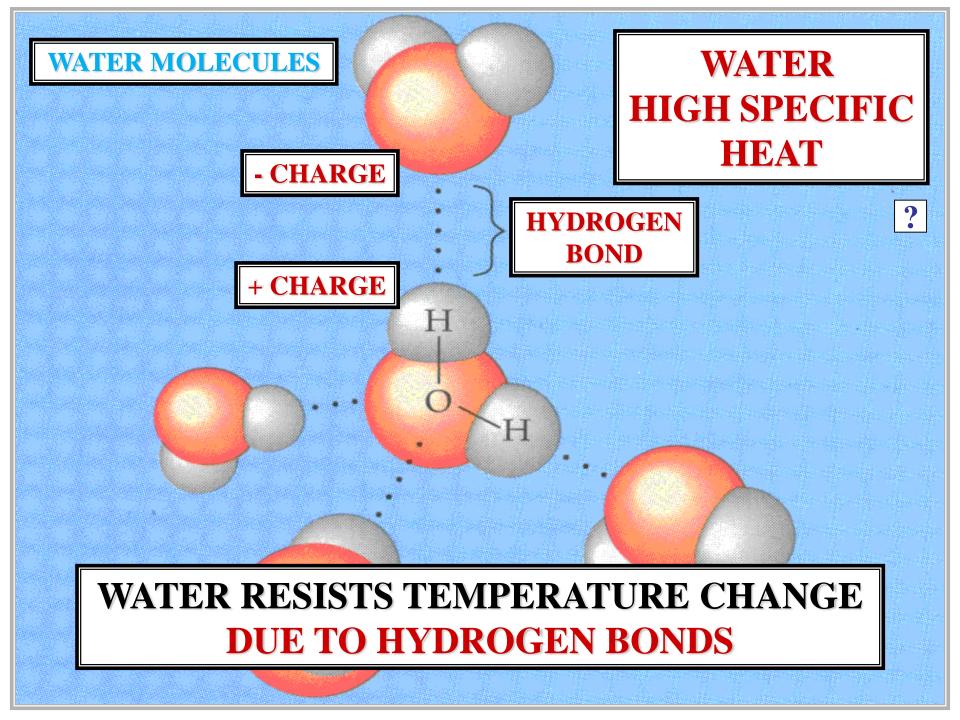




WATER

ANSWER





QUESTION WATER REQUIRES A LOT **OF ENERGY TO CHANGE TEMPERATURE.**

TRUE OR FALSE? QUESTION





TRUE

ANSWER

WATER REQUIRES A LOT OF ENERGY TO CHANGE TEMPERATURE

SH

WATER HIGH SPECIFIC HEAT



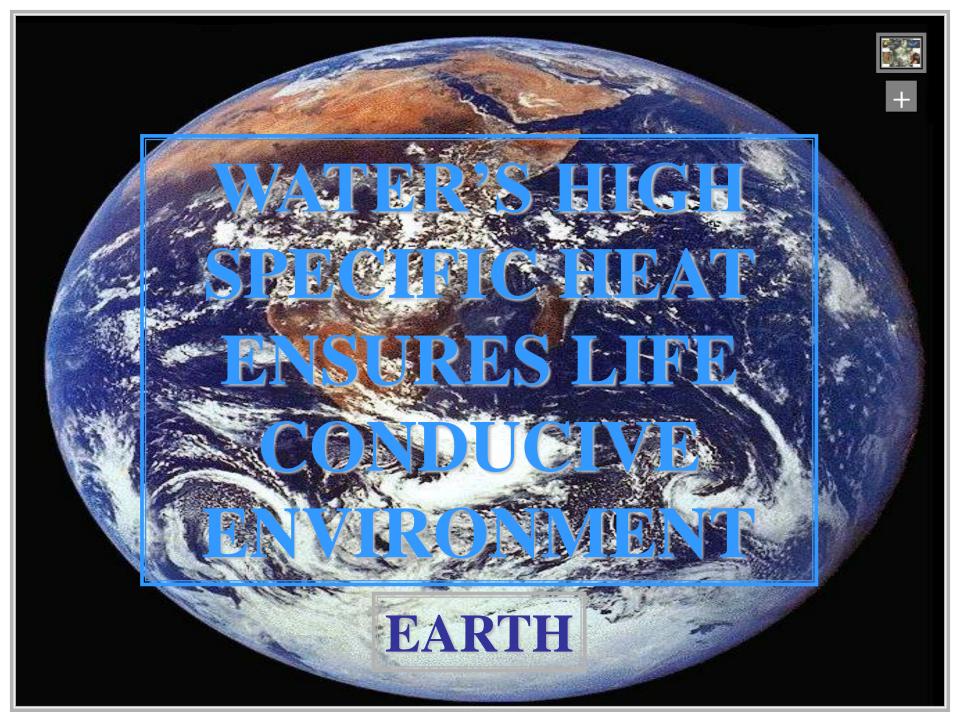
WATER'S HIGH **SPECIFIC HEAT GLOBAL CLIMATIC** REGULATOR













WATER'S HIGH **SPECIFIC HEAT** LOCAL CLIMATIC REGULATOR







GREAT LAKES REGION NORTH AMERICA





























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