Chemistry 11

Name:______ Blk:_____Date:_____

Yesterday we looked at different solvents (in question #17) and you may have noticed that the majority of them were classified as being " Po L AL ". And that is because a polar solvent (which possess either the H-bond or the dipole-dipole bond) can dissolve either polar or non-polar solutes.
In a salt water solution, is the solvent and
When water and salt are combined not only does the water dissolve the salt (Na C (1)), but it also NSSOCIATES (or IONIZES) the salt into its component ions: North + C C. When this occurs the solution that is formed can conduct an electric.
We can show this in an equation:
Naclos Hables Na cago + CP (ag)
Here the separation of charges enables an electric current to flow through the solution and light the bulb.
When water and iodine combine the water only somewhat dissolves the iodine.
Here the lack of ions (no charges) does not enable an electric current to flow and the light bulb does not glow.

2. Because of the result what can we conclude about sugar?

not conduct a current

Remember the process of solvation? "Like dissolves Like"?

Water is POLAR and will dissolve and dissociate a POLAR (or IONIC) solute such as salt.

Water is POLAR and will (somewhat) dissolve but not dissociate a NON-POLAR (true covalent) solute such as Iodine.

Now watch the video: "Crash Course Chemistry Water and Solutions for Dirty Laundry #7".

Ex: 28 and 29 pg 210 dissociation equations