Name:_			
Blk:	Date:		

Water is AWESOME!

In the space below write down the important information presented to you by Hank Green in the Crash Course Biology Lesson "Water-Liquid Awesome": (link for this video is provided)
1
2
3
4
5
6
7
8
You were informed in the above video that water is a "POLAR" moleculeso what is the difference betweenMolecules? Let's investigate:
When we learn about MATTER in junior science we are taught that it can be divided into two branches:
3 – elements and compounds
4solutions, suspensions and mechanical mixtures
Water is an example of a pure substance (a compound). But a glass of water is not just one water molecule, it is many water molecules that function as a single entity due to an inter-molecular force
known as the

There are two types of Bonding Categories:				
<u>l.</u>	Bonding			
	Bonding			
·	s the junior science bonding which you used to classify Well, as you may know it is not that			
simplesome substances, like water, are somewl				
•	As we already learned in the chemical reactions unit;			
	by what is called true covalent, polar covalent or ionic			
$\Delta EN = EN(larg$	ger) — EN(smaller)			
If the ΔEN is between 0.0 and 0.5 it has				
If the ΔEN is between 0.6 and 1.6 it has				
If the ΔEN is between 1.7 and 3.3 it has				
WHAT IS A DIPOLE?				
A dipole translates to mean	. Much like the earth with the north and south			
pole. One pole is designated as being	while the other is In			
polar covalent and ionic compounds there is a	and the appropriate			
regions are designated with a or a				
However, we know that all atoms are made up of				
surrounded by loosely held	that are circulating the			
nucleus in what are called	When these electrons are on one side of the atom			
	(making the other side).			
This means that even covalent compounds can (ev	ven if short lived) possess a			
INTER-MOLECULAR BONDING (also known as	in honour of			
Dutch scientist Johannes Diderik van der Waals) is	the bonding that holds two adjacent molecules			
together. There are three types of inter-molecular	r bonding forces: Dipole-Dipole force, Hydrogen Bond			
and London Forces. It is because of these forces t	hat we can water.			

Read the Summary of Molecular Polarity and Polar and Non-Polar Solvents on page 207 and then use
your own words to describe them in the space below:
London Forces:
Dinala Dinala Faras
Dipole-Dipole Force:
Hydrogen Bonding:
Now read pages 205-206 and explain the process of SOLVATION: (AKA LIKE DISSOLVES LIKE:)