## Big Chem: Unit 14 Polar Molecules

PRINT Name	Period
Remember that extra help is found in the Text book, the on-line Research Text, and in Extra Help on our web page.	
1. Define <i>Polar Molecule</i> and give an examp	ple.
2. Define the <i>Hydrogen Bond</i> and give an experience of the state of t	cample.
3. What are <i>Intermolecular Forces</i> (van der covalent bonds in strength?	Waals) and how do they compare with
4. What is the difference between an <i>Interm</i>	olecular Forces and a Covalent Bond?
5. What is a <i>Hydrogen Bond</i> and how does i <i>Bond</i> ?	t compare in strength with a Covalent
6. Illustrate Symmetric & Asymmetric Mole	ecules. Why are they important?
7. Define <i>Allotrope</i> , name two allotropes of	oxygen and write their formulas.
8. What is the difference between the molec water?	ular structure of liquid water and solid
9. Explain why ice floats in water?	
10. Show why is water polar?	
11. Diagram and explain how <i>microwave co</i>	ooking works?
12. What is <i>chromatography</i> and how is it u	sed?
13. How is molecular spectroscopy used in p	police work?

STAPLE THIS PAPER TO YOUR PAPERS (at home). Turn in at the Beginning of the Period when due.

Hint: this is the attraction between molecules, not the chemical bonds between atoms.

14. Describe how forces hold molecular substances in the liquid and solid states?