TER MOLECULE	Name:	_
	Polarity Lab: Water vs.	7

Number: ____

Pre-Lab:

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1. Fill out the following table:

Compound	Lewis Structure	Polarity of Molecule	Strongest IMF present
Water (H₂O)			
Hexane (C ₆ H ₁₄)	H H H H H H-C-C-C-C-C-H H H H H H		
Iodine (I2)			

2. Predict what you think will happen when Water, Hexane, Iodine, and Copper (II) sulfate are combined into a test tube. (Hint: Like dissolves like.)

Procedure:

- 1. Obtain a test tube and fill $\frac{1}{3}$ of the test tube with water.
- 2. Fill the test tube about $\frac{2}{3}$ with hexane. Cap with thumb and shake for 30 seconds. Let sit for 30 seconds. Record observations on the back of this sheet.
- 3. Using a scoopula, add copper (II) sulfate to the test tube. Cap with thumb and shake for 10 seconds. Let sit for 30 seconds. Record observations.
- 4. Using a wood splint, add a few small pieces of iodine (I_2) . Cap with thumb and shake for 10 seconds. Let sit for 30 seconds. Record observations on the back of this sheet.

Data 1	table for Observations:
	ab Questions: Explain what happened when water and hexane were added to the test tube. Why did this happen?
2.	Explain what happened to the copper (II) sulfate (Hint: This is an ionic compound) and what type of molecule can an ionic compound dissolve in to.
3.	Explain what happened to the iodine (I_2) using your knowledge of polarity. Why did this occur?