	Polarity and Intermolecular Forces Worksheet			Name:			
	Chemistry Chapters 12, 14, and 17 points				Date:	Hour:	
1.	Use the electronegativity table on page 303 care ionic, polar covalent, or nonpolar covalent				extbook to decide	e if the following bonds	
			Electronegativity Difference	Т	Type of Bond	If polar, show partial charges	
	ex>	C - O	1.00	p	olar covalent	δ+ C–Ο δ-	
	a)	Cl - As					
	b)	O - K					
	c)	N - N					
	d)	О - Н					
	e)	Si - S					
	f)	N - P					
	g)	Si - N				_	
	h)	O - P				_	
	i)	Mg - O					
2.	What	t is the differe	nce in the electrons in an i	onic and	d covalent bond?		
3.	What	t is the differe	nce in the electrons in a po	olor cov	ralent and nonnola	ur covalent bond?	
٥.	vv 11a1	is the differen	nee in the electrons in a po	oiai cov	arent and nonpois		
4.	Draw	the structure	es of the following molec	ules and	decide if they ar	e polar or nonpolar:	
	(a)	propane		(b)	methyl alcohol		

(c)	water	(d)	cyclopentane
(-)		()	J P

(e)
$$CS_2$$
 (e) PCl_3

5. Use the following chart to answer the questions below:

Substance	Intermolecular Force	Melting Point (°C)	Substance	Intermolecular Force	Melting Point (°C)
MgF_2		1248	HF		- 83
KF		860	HBr		-89
NaCl		801	Cl_2		-101
I_2		114	HCl		-115
H ₂ O		0	C_5H_{12}		-130
Br_2	-	-7	CH ₄		-182
HI		-51	F_2		-220
NH ₃	, U	- 78	H_2	-	-259

Which intermolecular force appears to be the hardest to overcome with heat? Why
Which intermolecular force appears to be the easiest to overcome with heat? Why
Write a list of intermolecular forces from strongest to weakest: