Interm	olecular Forces	Name:	Period:
1.	List the intermolecular forces in order of increasing	g strength.	
2.	Which of the following compounds can form dipole	=	
3.	Why are dipole-dipole forces stronger than dispers	ion forces for molecule	es of comparable mass?
4.	Which of the molecules listed below can form hydro	ogen bonds? Give reas	sons for your answers.
	a. H ₂		
	b. NH ₃		
	c. HCl		
	d. HF		
	e. H_2O		
	f. NaF		
	g. NO		
	h. H_2O_2		
	i. CH_4		
	j. F ₂		
5.	Which of the molecules listed below would dispersi	on forces be the only i	ntermolecular force? Give reason
	your answers.	-	
	a. H ₂		
	b. NH ₃		
	c. HCl		
	d. HF		
	e. CBr ₄		
	f. SiO ₂		
6.	Explain the difference between a temporary dipole	and a normanent dino	ماه
0.	Explain the difference between a temporary dipole	and a permanent dipo	ne.
7.	Use intermolecular forces to explain why oxygen is	a gas at room tempera	ature and water is a liquid.
8.	List the following in order of increasing boiling point: H ₂ , RbCl, NH ₃		
9.	Which of the following will have a higher melting point?		

Why?

a. NaI or CH₄b. O₂ or H₂Sc. SCl₂ or NH₃

10. Which of the following has a higher boiling point? CF_4 , CCl_4 , CBr_4