

Name: _____

Period: _____

Seat#: _____

Indicate the **strongest** IMF holding together crystals of the following:

		Molecular Crystal			Metal	Ionic Crystal	Network Solid
		London forces	Dipole-dipole attractions	Hydrogen Bonds	Metallic Bonds	Ionic Bonds	Covalent Bonds
1.	NH ₃						
2.	Kr						
3.	HCl						
4.	F ₂						
5.	KMnO ₄						
6.	NaCl						
7.	SO ₂						
8.	CO ₂						
9.	C ₃ H ₈						
10.	CH ₄						
11.	CH ₃ Cl						
12.	HF						
13.	C ₆ H ₆						
14.	NO						
15.	H ₂ SO ₄						
16.	WC						
17.	Si						
18.	SiO ₂						
19.	C _(graphite)						
20.	N ₂						
21.	CH ₃ OH						
22.	Ag						
23.	(C ₂ H ₅) ₂ NH						
24.	NaOH						
25.	Al						
26.	PCl ₃						

Dougherty Valley HS Chemistry
Bonding and Structure – IMFs

		Molecular Crystal			Metal	Ionic Crystal	Network Solid
		London forces	Dipole-dipole attractions	Hydrogen Bonds	Metallic Bonds	Ionic Bonds	Covalent Bonds
27.	XeF ₄						
28.	He						
29.	Na						
30.	CO						
31.	Ar						
32.	Ba(OH) ₂						
33.	O ₂						
34.	H ₂ O						
35.	NH ₄ Cl						
36.	Hg						
37.	P ₄						
38.	HCN						
39.	CaO						
40.	N ₂ H ₂						
41.	H ₂						
42.	Pb						
43.	XeF ₂						
44.	SF ₄						
45.	SiC						
46.	Si ₄ H ₁₀						
47.	PH ₃						
48.	SiH ₄						
49.	H ₂ Se						
50.	C ₂ H ₂						
51.	I ₂						
52.	Cu						
53.	AsH ₃						
54.	K ₂ S						