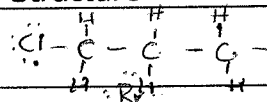
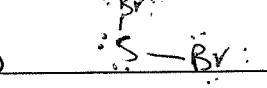
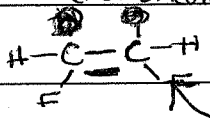
20. List the steps (in order) for the scientific method.

problem
Hypothesis
procedure
Data
conclusion

21. What does VSEPR stand for ? valence shell electron pair repulsion theory

22.- 27.

	Molecular Shape	Example of Lewis Dot Structure	Bond Angle	Polarity
$C_3H_6Cl_2$	Linear		180°	NP
SBr_2	Bent (tetrahedral)		<109.5°	polar
$C_2H_2F_2$		Linear	180°	NP

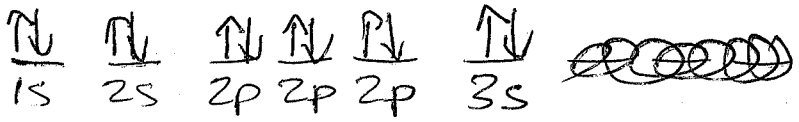
28. Use electronegativity values to determine the bond type between C and N.

3.0 - 2.5 = 0.5 nonpolar

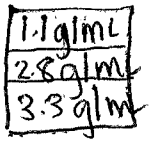
29.- 32. Identify the properties for each type of bonding.

Properties	Ionic Bonding	Covalent Bonding
Conductivity	X	
Ductile and malleable	X	
Lustrous	X	
Low melting points		X

33. Draw an orbital diagram for Mg.



34. Draw a beaker with three liquid layers. Each liquid layer has a specific density. Determine which of the following densities represents each layer 3.3 g/ml, 1.1 g/ml and 2.8 g/ml.



~~35.-36. What are the two math equations you can use to convert temperatures?~~