

Comparison of Bond Types

Name _____

Period _____

For each bond type, write out the answers for the following characteristics. Complete the following table on a separate piece of paper.

Comparison	Covalent Bonds	Ionic Bonds	Metallic Bonds
FORMATION	*****	*****	*****
1. Types of atoms	a)	b)	c)
2. Valence electron distribution in the bond	a)	b)	c)
3. Electronegativity Difference	a)	b)	c)
4. Atom Examples	a)	b)	c)
5. Draw model/illustration			
CHARACTERISTICS	*****	*****	*****
6. Bond Strength	a)	b)	c)
7. Structure	a)	b)	c)
PROPERTIES OF COMPOUNDS	////////	////////	////////
8. Type of			

10. SrF₂ Strontium fluoride

11. Ca₃(PO₄)₂ Calcium phosphate

12. N₂O Dinitrogen monoxide

13. PCl₃ Phosphorus trichloride

14. H₂O Hydrogen monoxide

15. Sn(NO₃)₂ Tin(II) nitrate

16. BeO Beryllium monoxide

17. Ca₃P₂ Calcium phosphide

18. B₂O₃ Diboron trioxide

19. P₂O₅ Diphosphorus pentoxide

20. N₂O Dinitrogen monoxide

21. Sn(NO₃)₂ Tin(II) nitrate

22. BeO Beryllium monoxide

23. Ca₃P₂ Calcium phosphide

24. B₂O₃ Diboron trioxide

25. P₂O₅ Diphosphorus pentoxide

