

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. Ca₃(PO₄)₂ Calcium phosphate

17. P₂O₅ Diphosphorus pentoxide

18. H₂O hydrogen monoxide

19. PCl₃ Phosphorus trichloride

20. N₂O dinitrogen monoxide

21. Sn(NO₃)₂ Tin(II) nitrate

22. P₂O₅ Diphosphorus pentoxide

23. Ca₃(PO₄)₂ Calcium phosphate

24. H₂O hydrogen monoxide

25. PCl₃ Phosphorus trichloride

26. N₂O dinitrogen monoxide

27. PCl₃ Phosphorus trichloride

28. N₂O dinitrogen monoxide

29. PCl₃ Phosphorus trichloride

30. N₂O dinitrogen monoxide

31. Ca₃(PO₄)₂ Calcium phosphate

32. P₂O₅ Diphosphorus pentoxide

33. H₂O hydrogen monoxide

34. PCl₃ Phosphorus trichloride

35. N₂O dinitrogen monoxide

36. PCl₃ Phosphorus trichloride

37. N₂O dinitrogen monoxide

38. PCl₃ Phosphorus trichloride

39. N₂O dinitrogen monoxide

40. PCl₃ Phosphorus trichloride

41. N₂O dinitrogen monoxide

42. PCl₃ Phosphorus trichloride

43. N₂O dinitrogen monoxide

44. PCl₃ Phosphorus trichloride

45. N₂O dinitrogen monoxide

46. PCl₃ Phosphorus trichloride

47. N₂O dinitrogen monoxide

48. PCl₃ Phosphorus trichloride

49. N₂O dinitrogen monoxide

50. PCl₃ Phosphorus trichloride