

# PRECIPITATION

## Experiment PRECIPITATION REACTIONS

**Aim:** \_\_\_\_\_

**Materials:**

- Spotting tile (or small well table)

The following are stronger families to use:

- Lead (II) nitrate (teacher demo only)
- Potassium manganate (teacher demo only)
- Lead (II) acetate
- Lead (II) chloride
- Copper sulfate
- Sodium hydroxide
- Sodium carbonate
- Sodium chloride
- Sodium sulfate

**Method:**

1. Add about 3 drops of solution A to about 3 drops of \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

26. \_\_\_\_\_

27. \_\_\_\_\_

28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_

31. \_\_\_\_\_

32. \_\_\_\_\_

33. \_\_\_\_\_

34. \_\_\_\_\_

35. \_\_\_\_\_

36. \_\_\_\_\_

37. \_\_\_\_\_

38. \_\_\_\_\_

39. \_\_\_\_\_

40. \_\_\_\_\_

41. \_\_\_\_\_

42. \_\_\_\_\_

43. \_\_\_\_\_

44. \_\_\_\_\_

45. \_\_\_\_\_

46. \_\_\_\_\_

47. \_\_\_\_\_

48. \_\_\_\_\_

49. \_\_\_\_\_

50. \_\_\_\_\_

51. \_\_\_\_\_

52. \_\_\_\_\_

53. \_\_\_\_\_

54. \_\_\_\_\_

55. \_\_\_\_\_

56. \_\_\_\_\_

57. \_\_\_\_\_

58. \_\_\_\_\_

59. \_\_\_\_\_

60. \_\_\_\_\_

61. \_\_\_\_\_

62. \_\_\_\_\_

63. \_\_\_\_\_

64. \_\_\_\_\_

65. \_\_\_\_\_

66. \_\_\_\_\_

67. \_\_\_\_\_

68. \_\_\_\_\_

69. \_\_\_\_\_

70. \_\_\_\_\_

71. \_\_\_\_\_

72. \_\_\_\_\_

73. \_\_\_\_\_

74. \_\_\_\_\_

75. \_\_\_\_\_

76. \_\_\_\_\_

77. \_\_\_\_\_

78. \_\_\_\_\_

79. \_\_\_\_\_

80. \_\_\_\_\_

81. \_\_\_\_\_

82. \_\_\_\_\_

83. \_\_\_\_\_

84. \_\_\_\_\_

85. \_\_\_\_\_

86. \_\_\_\_\_

87. \_\_\_\_\_

88. \_\_\_\_\_

89. \_\_\_\_\_

90. \_\_\_\_\_

91. \_\_\_\_\_

92. \_\_\_\_\_

93. \_\_\_\_\_

94. \_\_\_\_\_

95. \_\_\_\_\_

96. \_\_\_\_\_

97. \_\_\_\_\_

98. \_\_\_\_\_

99. \_\_\_\_\_

100. \_\_\_\_\_

## Investigating PRECIPITATION REACTIONS

It is possible for two aqueous solutions to react together and produce a new chemical that is insoluble. The insoluble substance is called the \_\_\_\_\_ . We call the type of chemical reaction a \_\_\_\_\_ reaction. The insoluble precipitate will eventually settle to the bottom of the solution and the precipitate is often a different colour from the original solutions.

The precipitate is an insoluble \_\_\_\_\_ compound, and we can determine the names of the new compound by writing our chemical equations for the double \_\_\_\_\_ reaction. A double replacement reaction is one in which two elements are swapped and so \_\_\_\_\_ other in the reaction. In the case, the metals in each compound swap partners in the reaction. We can use \_\_\_\_\_ rules to determine whether a precipitate is produced. Which ions, compound will form the precipitate.

**Solubility rules for common ions compounds in water:**

ANION/CATION	SOLUBLE	INSOLUBLE
Ag <sup>+</sup>		AgCl, AgBr, AgI
Al <sup>3+</sup>		Al(OH) <sub>3</sub> , AlPO <sub>4</sub>
As <sup>3+</sup>		As(OH) <sub>3</sub> , AsPO <sub>4</sub>
Ca <sup>2+</sup>	CaCl <sub>2</sub> , CaBr <sub>2</sub> , CaI <sub>2</sub>	CaCO <sub>3</sub> , CaSO <sub>4</sub> , Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>
Co <sup>2+</sup>		Co(OH) <sub>3</sub> , CoPO <sub>4</sub>
Cu <sup>2+</sup>		Cu(OH) <sub>2</sub> , CuCO <sub>3</sub> , Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>
Fe <sup>2+</sup>		Fe(OH) <sub>3</sub> , FePO <sub>4</sub>
Fe <sup>3+</sup>		Fe(OH) <sub>3</sub> , FePO <sub>4</sub>
Li <sup>+</sup>	LiCl, LiBr, LiI	
Mg <sup>2+</sup>		Mg(OH) <sub>2</sub> , MgCO <sub>3</sub> , Mg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>
Mn <sup>2+</sup>		Mn(OH) <sub>2</sub> , MnCO <sub>3</sub> , Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>
NH <sub>4</sub> <sup>+</sup>	NH <sub>4</sub> Cl, NH <sub>4</sub> Br, NH <sub>4</sub> I	
Pb <sup>2+</sup>	PbCl <sub>2</sub> , PbBr <sub>2</sub> , PbI <sub>2</sub>	PbCO <sub>3</sub> , PbSO <sub>4</sub> , Pb <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>
PO <sub>4</sub> <sup>3-</sup>		Ag <sub>3</sub> PO <sub>4</sub> , AlPO <sub>4</sub> , AsPO <sub>4</sub> , Ba <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , BiPO <sub>4</sub> , Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , Co <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , CrPO <sub>4</sub> , Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , FePO <sub>4</sub> , GaPO <sub>4</sub> , InPO <sub>4</sub> , K <sub>3</sub> PO <sub>4</sub> , Li <sub>3</sub> PO <sub>4</sub> , Mg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , Ni <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , NiPO <sub>4</sub> , Pb <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , SbPO <sub>4</sub> , SnPO <sub>4</sub> , Sr <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , TaPO <sub>4</sub> , TePO <sub>4</sub> , TiPO <sub>4</sub> , U <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , VPO <sub>4</sub> , WPO <sub>4</sub> , Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> , ZnPO <sub>4</sub>
S <sup>2-</sup>		Ag <sub>2</sub> S, Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
SO <sub>4</sub> <sup>2-</sup>		Ag <sub>2</sub> SO <sub>4</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
SiO <sub>3</sub> <sup>2-</sup>		Ag <sub>2</sub> SiO <sub>3</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
VO <sub>3</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>3</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
VO <sub>4</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>4</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
VO <sub>6</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>6</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
VO <sub>7</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>7</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
VO <sub>8</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>8</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
VO <sub>9</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>9</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
VO <sub>10</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>10</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
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VO <sub>12</sub> <sup>3-</sup>		Ag <sub>2</sub> VO <sub>12</sub> , Al(OH) <sub>3</sub> , As(OH) <sub>3</sub> , BaCO <sub>3</sub> , Bi <sub>2</sub> O <sub>3</sub> , CaCO <sub>3</sub> , Co <sub>3</sub> (OH) <sub>2</sub> , Cr(OH) <sub>3</sub> , Cu <sub>2</sub> (OH) <sub>2</sub> , Fe <sub>3</sub> (OH) <sub>2</sub> , Fe(OH) <sub>3</sub> , Ga(OH) <sub>3</sub> , In(OH) <sub>3</sub> , K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> , MgCO <sub>3</sub> , MnCO <sub>3</sub> , NiCO <sub>3</sub> , Ni(OH) <sub>2</sub> , Ni <sub>3</sub> (OH) <sub>2</sub> , NiSO <sub>4</sub> , PbCO <sub>3</sub> , PbSO <sub>4</sub> , Sb <sub>2</sub> O <sub>3</sub> , Sn <sub>2</sub> O <sub>3</sub> , SrCO <sub>3</sub> , Ta <sub>2</sub> O <sub>5</sub> , Te <sub>2</sub> O <sub>5</sub> , Ti <sub>2</sub> O <sub>5</sub> , U <sub>2</sub> O <sub>5</sub> , V <sub>2</sub> O <sub>5</sub> , W <sub>2</sub> O <sub>5</sub> , ZnCO <sub>3</sub> , Zn(OH) <sub>2</sub> , ZnSO <sub>4</sub>
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# Experiment 17 Precipitation Reactions Answers

**Didier Musso**



## **Experiment 17 Precipitation Reactions Answers:**

**Comprehensive Practical Science IX** S.P. Saxena,Dheeraj Saxena,2010      **Laboratory Manual for Science** □ 9 A. K. Raj, Laboratory Manual for Science is a series of five books for classes 6 to 10 These are complimentary to the Science textbooks of the respective classes The manuals cover a wide range of age appropriate experiments that give hands on experience to the students The experiments help students verify scientific truths and principles and at the same time expose them to the basic tools and techniques used in scientific investigations Our manuals aim not only to help students better comprehend the scientific concepts taught in their textbooks but also to ignite a scientific quest in their young inquisitive minds

**AP Chemistry For Dummies** Peter J. Mikulecky,Michelle Rose Gilman,Kate Brutlag,2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam

**Core Science Lab Manual with Practical Skills for Class IX** V. K. Sally,Chhaya Srivastava,Goyal Brothers Prakashan,2019-01-01 Goyal Brothers Prakashan

**Quantitative Analytical Chemistry** Hermenegild Arved Flaschka,Alfred James Barnard,Peter Earle Sturrock,1981

NEET National Eligibility Cum Entrance Test Chemistry Class 12 Volume II Priti Singhal,2024-11-12 The content in this book has been meticulously aligned with the latest NEET syllabus and trends reflecting insights from previous years papers

We have focused on high yield topics and included chapter summaries topic wise MCQs and mock tests to provide a structured approach to learning Whether it s mastering Biology tackling numerical in Physics or understanding the complexities of Organic Chemistry this book offers step by step solutions to help students at every stage of their preparation One of the unique features of this book is the integration of past year questions within chapters to show how theoretical concepts are applied in actual NEET exams Full length mock tests have also been provided to simulate the exact exam environment building speed and confidence For students struggling with time management we offer strategies to plan daily schedules effectively and balance study and relaxation to avoid burnout

**Prentice Hall Chemistry** ,2000 **Certificate Chemistry Form 4** , Practical Skills in Science R P Manchanda, Practical Book **Chemistry** R P Manchanda, A text book on Chemistry College Chemistry Companion James Kendall,1924 **The Journal of Experimental Medicine** ,1954 **Experiments in General Chemistry** Toby F. Block,1986 **Scientific and Technical Aerospace Reports** ,1986 **Chemistry** John W. Moore,Conrad L. Stanitski,Peter C. Jurs,2002 CHEMISTRY THE MOLECULAR SCIENCE is intended to help students develop a broad overview of chemistry and chemical reactions an understanding of the most important concepts and models that chemists and those in chemistry related fields use an appreciation of the many ways chemistry impacts our daily lives the ability to apply the facts concepts and models of chemistry appropriately to new situations in chemistry other sciences and engineering and to other disciplines **Chemical News and Journal of Industrial Science** ,1879 **American Druggist and Pharmaceutical Record** ,1900 *Chemical News and Journal of Physical Science* ,1870 The Pharmaceutical Era ,1898 **The Chemical News and Journal of Physical Science** ,1902

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