

KEY – WATER PRACTICE 2

- 1) Hydrates contain water in the crystal lattice; normal ionic compounds do not.
- 2) The water is bound up inside the crystal lattice.
- 3) 1 = mono
2 = di
3 = tri
4 = tetra
5 = penta
6 = hexa
7 = hepta
8 = octa
9 = nona
10 = deca
- 4) potassium sulfate tetrahydrate
- 5) calcium chloride dihydrate
- 6) copper(II) sulfite heptahydrate
- 7) sodium carbonate decahydrate
- 8) sodium carbonate monohydrate
- 9) barium acetate trihydrate
- 10) manganese(II) sulfate pentahydrate
- 11) SUSPENSION - salt is ionic and vegetable oil is nonpolar
- 12) SOLUTION - both are nonpolar
- 13) SOLUTION - both are polar
- 14) SUSPENSION - vinegar is polar and oil is nonpolar
- 15) SOLUTION - both are nonpolar (because they are symmetrical)
- 16) SOLUTION - BaBr_2 is ionic and water is polar
- 17) SUSPENSION - alcohol is polar and oil is nonpolar
- 18) SOLUTION - both are nonpolar
- 19) SOLUTION - both are nonpolar
- 20) SOLUTION - both are polar