**Pre-Lab quiz: Molar ratio of hydrated salts**

1. What is a hydrated salt? Are all salts hydrated?

2. Where is the water located in hydrated salts? What sort of bonds exist between the

water & the salt.

3. Why are some hydrated salts colored while others are white?

4. Why does the color change with water content?

5. Is dehydration permanent or reversible?

6. What percentage of the mass of this hydrated salt is made up of water, CoSO4.7H2O?

7. Does the loss of water from hydrated salts cause enough of a change in mass for us to

measure in the lab?

8. How many molecules in a mole? What is the 'name' of this value or number?

9. Is it possible to have a molar ratio of non-integers?

10. What are 3 signs that you're using too much heat when dehydrating your salt?