**Chemistry test study guide**

Answer all questions on separate paper and turn in

Notes can be found on my website

* What is the definition of chemistry?
* What are the parts of the atom and their function?
* Can you describe an atoms structure?
* What is the difference between an atomic number and atomic mass?
  + Can you identify them on a periodic table?
  + Can you tell me how many protons, neutrons and electrons are in an element given a periodic table?
* What is an isotope?
* What is an Ion?
  + How do you determine the charge of an ion?
* What is a covalent, polar covalent and hydrogen bond?
  + Which is the strongest?
  + Which is the weakest?
  + Can you draw them?
* How can you tell how many bonds an atom can form?
* What is the difference between cement and concrete?
* What are the four carbon compounds?
  + Can you describe properties of each?
* What is a chemical reaction?
* What are the 3 components to a chemical reaction?
* What is a hydration reaction?
* What is the difference between an exothermic and an endothermic reaction?
  + Can you identify them given a reaction chart?
  + Can you identify them given real examples?
* What is an enzyme?
  + How do enzymes affect chemical reactions?
* What can chemistry be used for?