**Redo for the Isotope and Ion test. Due Jan 25, NO EXCEPTIONS.**

1. What is an atom? Explain and describe the structure of an atom, (protons, neutrons, electrons). Use vocabulary we learned.
2. Explain what the atomic number and the mass number tell us?
3. Draw atoms of 3 different elements. Name the element and show the number of protons, neutrons and electrons. Label your drawing.
4. Draw an isotope of each of your 3 atoms. Write a paragraph explaining why these are isotopes. Make sure to refer to your drawings.
5. Draw an ion of each of your 3 atoms. Make the first one have a +1 charge, the second a -2 charge and the third a +2 charge. Write a paragraph explaining why these are ions and explain how you determined the charge of each. Make sure to refer to your drawings.
6. Be prepared to clarify anything you wrote or drew if I ask you a question.

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| **1A** | **2A** | **3A** |
| **1B** | **2B** | **3B** |
| **1C** | **2C** | **3C** |