**CHE1031: Isotope calculations worksheet**

Use the Royal Chemical Society’s interactive periodic table to complete this exercise.
<http://www.rsc.org/periodic-table>

* Please use green engineering paper for this assignment. I suggest creating a table in ‘landscape’ orientation.
* Please include one example of each type of calculation you needed to do to complete the assignment.

**Exercise:**

1. Choose 5 elements from the periodic table.
	1. Your choices must include a electropositive metal, a transition metal, a metalloid, a nonmetal and a noble gas.
	2. Your choices must include elements from row 1, row 2, row 3, row 4, and row 5.
2. For each of your five elements:
	1. Report its number of protons.
	2. Report its number of electrons.
	3. Report its number of neutrons.
3. For each of your five elements, list all of its isotopes and the mass of each isotope.
4. For each of your five elements, calculate the average atomic mass of the element using your information about its isotopes and their abundance (or frequency). How does your calculated average atomic mass compare with the atomic mass shown in the periodic table.
5. Do you notice any trends among the five elements you chose? Please describe these trends.