

Day 9 August 1
Practice Exam 1

1. List 3 things that you learned about protons.

a. _____

b. _____

c. _____

2. List 3 things that you learned about electrons. (You should study neutrons too)

a. _____

b. _____

c. _____

3. As

a) How many protons does it contain? _____

b) How many neutrons does it contain? _____

c) How many electrons does it contain? _____

d) What group is it in? _____

e) What period is it in? _____

f) Is it a metal, nonmetal, or metalloid _____

4. V^{3+}

a) How many protons does it contain? _____

b) How many neutrons does it contain? _____

c) How many electrons does it contain? _____

d) What group is it in? _____

e) What period is it in? _____

f) Is it a metal, nonmetal, or metalloid _____

5. N^{3-}

a) How many protons does it contain? _____

b) How many neutrons does it contain? _____

c) How many electrons does it contain? _____

d) What group is it in? _____

e) What period is it in? _____

f) Is it a metal, nonmetal, or metalloid _____

6. Magnesium-26

a) How many protons does it contain? _____

b) How many neutrons does it contain? _____

c) How many electrons does it contain? _____

d) What group is it in? _____

e) What period is it in? _____

f) Is it a metal, nonmetal, or metalloid _____

7. What are Isotopes? (Review your notes for all vocabulary terms)

9. What two major discoveries did Rutherford make in his gold foil experiment?
(Sometimes I ask students to sketch a diagram of this experiment and to label the parts)

Discovery 1:

Discovery 2:

10. What is the difference between a cation and anion?