

Elemental Egg Activity
Chemistry
Chapter 11

Name _____

Partner _____

1. Obtain an egg from the container.
2. Write the letter of the egg in the data table below.
3. Carefully open it over the white plastic plate.
4. If red beads represent the protons and white beads represent neutrons, fill in the chart below and answer the questions.

Egg Letter	# protons	# neutrons	Atomic number	Mass number	Element name	Element Symbol

5. Answer the questions from the data above:

a. If this was a neutral atom, how many electrons would it have? _____

b. Write the electron configuration of the element:

c. Draw the orbital diagrams for the element:

d. Is this a metal, nonmetal or metalloid? _____

e. What group is it in? _____

f. What period is it in? _____

g. How many valence electrons does it have? _____

h. How many energy levels does it have? _____

i. In what state of matter does it exist at room temperature? _____

j. List 3 properties you would expect it to have:

i. _____

ii. _____

iii. _____

k. If this atom formed an ion, what would the charge be? _____

l. Explain how this atom would form an ion.

6. Put all the beads back in the egg and return it to the container.