

GENERAL CHEMISTRY-I (1411)
S.L.# 5

1. Define atomic number: _____
Define mass number: _____
Which of these can vary without changing the identity of an element?
-
-

2. How many protons, neutrons, and electrons are in the following atoms:

a. ^{40}Ar	_____ p,	_____ n,	_____ e
b. ^{65}Zn	_____ p,	_____ n,	_____ e
c. ^{76}Ga	_____ p,	_____ n,	_____ e
d. ^{80}Br	_____ p,	_____ n,	_____ e
e. ^{184}W	_____ p,	_____ n,	_____ e
f. ^{241}Am	_____ p,	_____ n,	_____ e

3. Locate each of the following elements in the periodic table; indicate whether it is a metal, metalloid, or nonmetal and give the name of the element.

a. Na	Name: _____	Class: _____
b. Ti	Name: _____	Class: _____
c. Ga	Name: _____	Class: _____
d. U	Name: _____	Class: _____
e. Pd	Name: _____	Class: _____
f. Se	Name: _____	Class: _____
g. Kr	Name: _____	Class: _____
h. As	Name: _____	Class: _____

4. Predict the charges of the ions of the following elements:

a. Mg	_____
b. Al	_____
c. K	_____
d. S	_____
e. F	_____
f. Sr	_____

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Minjie Lin



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