

PRACTICE - TEST on Atomic Structure

Name: _____

1) Complete the table below – *Note that the particles are not in the same order.* [3 points]

	Charge	Location	AMU
Neutron	0	In Nucleus	1
Electron	1-	Electron Cloud	0
Proton	1+	In Nucleus	1

2) Complete the table below – [5 points]

$$\text{Protons} + \text{Neutrons} = \text{Mass #}$$

Isotope Symbol	Element Name	Atomic Number	Number of Protons	Number of Neutrons	Mass Number	Number of Electrons
^{15}N	Nitrogen	7	7	8	15	7
^{28}Al	Aluminum	13	13	15	28	13
^{41}Ca	Calcium	20	20	21	41	20
^{74}Br	Bromine	35	35	39	74	35

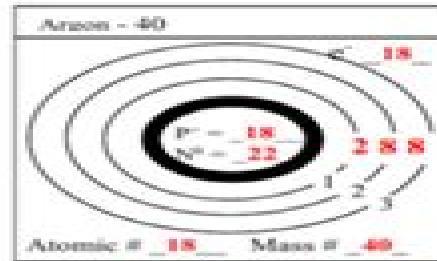
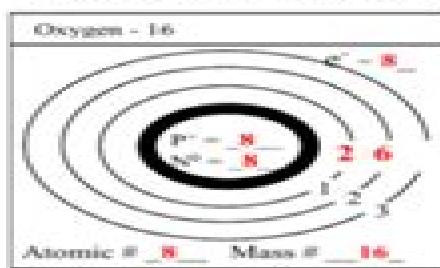
3) Complete the table below – [5 points]

	Atomic #	P ⁺	e ⁻	E1	E2	E3	E4	Ne ⁻	Group
F	9	9	9	2	7			7	7A - Halogens
P	15	15	15	2	8	5		5	5A -
Mg	12	12	12	2	8	2		2	2A - Alkali Earth Metals

4) Draw the Lewis Structures for the following neutral atoms. [6 points]



5) Complete the boxes below. Be sure to include the electron configuration on the correct energy levels. Draw the Lewis Structure of each resulting atom. [7 points]



Atomic Structure Test Answers

Peter P. Berlow

Atomic Structure Test Answers:

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