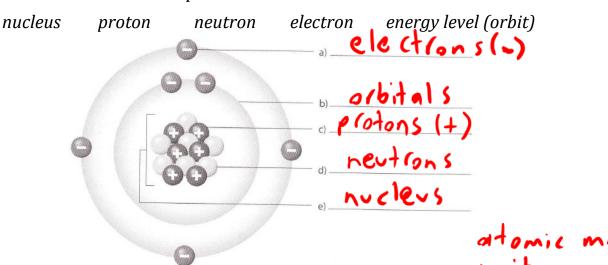
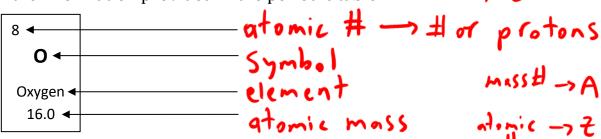
ATOMIC STRUCTURE

1. Use the vocabulary terms that follow to label the parts of an atom. Place the correct term on the line next to each part of the atom. You will not need to use all the terms.

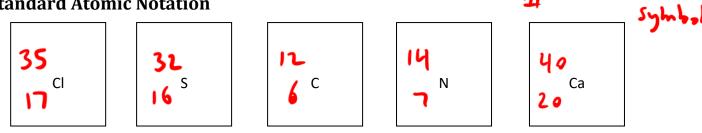


2. Complete the following table describing the three subatomic particles.

	Symbol	Overall Charge	Atomic Weight (u)	Location in Atom
Proton	P+	+1	la.m.v	nucleus
Neutron	^°	0	Ig.m.v	nucleus
Electron	6-	-1	13 40 a.m.v	out side of
Label the in	formation	the nucleu		



4. Standard Atomic Notation



5. What does the **atomic number** represent?

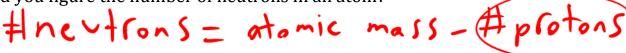
of protons or # of electrons

nat ques the	atomic	111055	epresenti	11 6	1 - (
井叶	plo	tons	+	# of	neutrons

7. How would you figure the number of protons or electrons in an atom?

atomic number

8. How would you figure the number of neutrons in an atom?

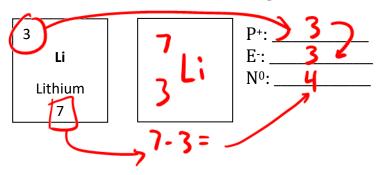


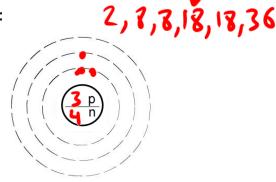
9. Each energy level has a limit on the number of electrons it can fit:

$$1^{st}$$
 orbit = 2^{-} e^{-} 3^{rd} orbit = 2^{-} e^{-}

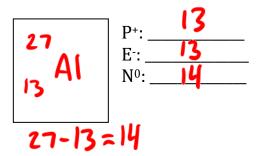
$$2^{\text{nd}} \text{ orbit} = \frac{8}{4^{\text{th}}} \text{ orbit} = \frac{8}{4^{\text{th}}} \text{ e}^{-\frac{1}{2}}$$

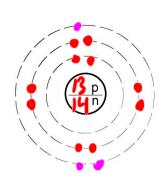
10. Draw the Bohr-Rutherford diagrams for the following:



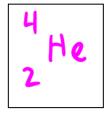


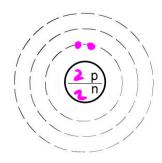
13 Αl Aluminum 27





2 He Helium





12 Mg Magnesium 24

