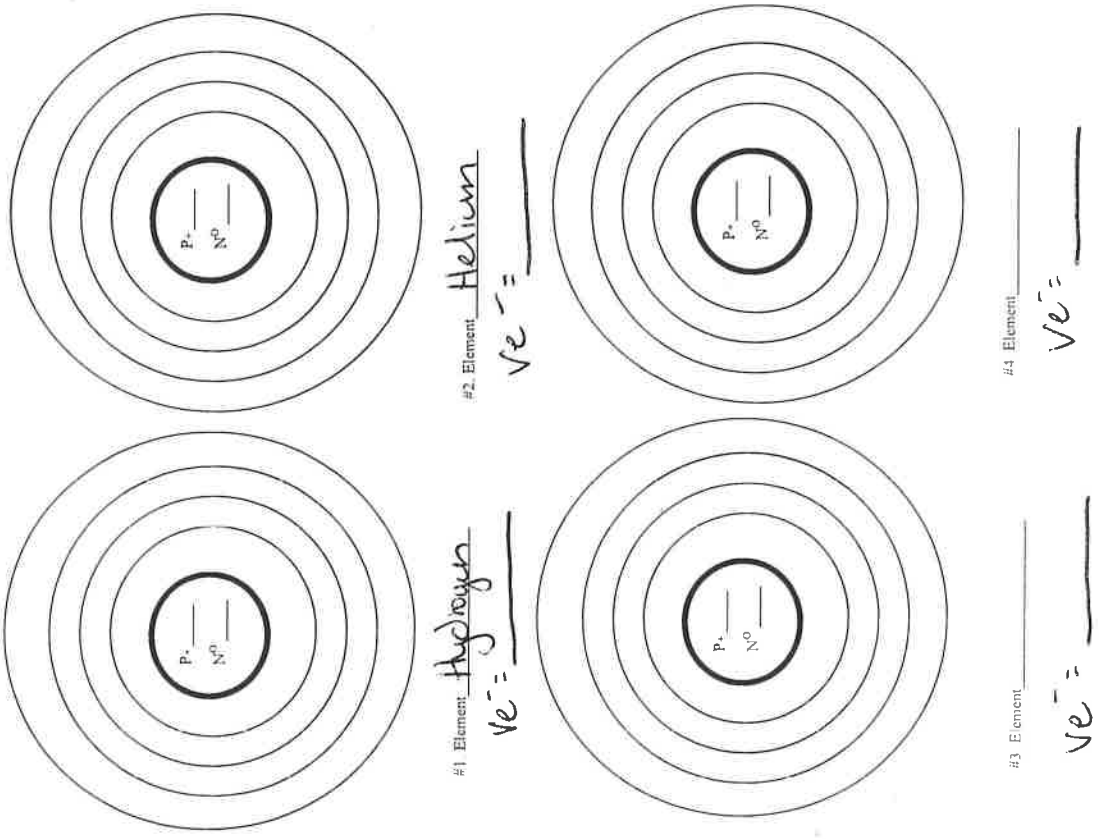
Name: _____ Period: _____

# Atomic Structure and Bohr Models

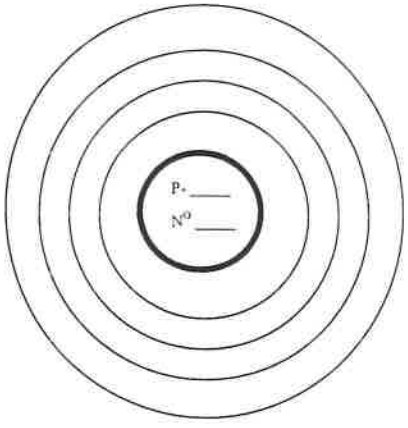
For each of the following, fill in the table, then complete the Bohr model for the element. The problem number corresponds to which Bohr model drawing it should be (they are numbered!)

| Problem Number | Element Name | Atomic Number | # of Protons | # of Electrons | # of Neutrons | Mass Number | Element Symbol |
|---|---|---|---|---|---|---|---|
| 1 | Hydrogen | | | | 0 | | |
| 2 | Helium | | | | | 4 | |
| 3 | | | | | | | $^{9}_{4}Be$ |
| 4 | | 5 | | | | 10 | |
| 5 | | | | | 7 | 14 | |
| 6 | | | 10 | | 10 | | |
| 7 | Sodium | | | | 12 | | |
| 8 | | | | | | | $^{29}_{14}Si$ |
| 9 | Phosphorous | | | | | 30 | |
| 10 | | 16 | 16 | 16 | | | |
| 11 | | | | | 22 | 40 | |
| 12 | | | 20 | | 21 | | |

Bohr Models: Draw the electrons in their proper energy level. Include the number of protons and neutrons in the nucleus.

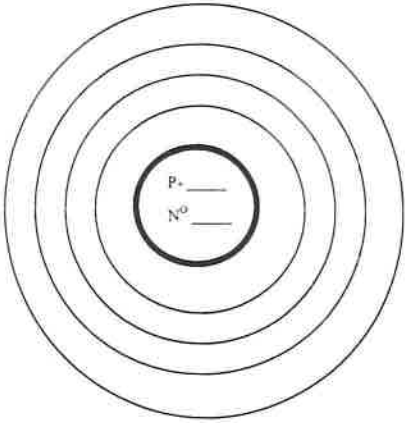


Bohr Models: Draw the electrons in their proper energy level. Include the number of protons and neutrons in the nucleus.



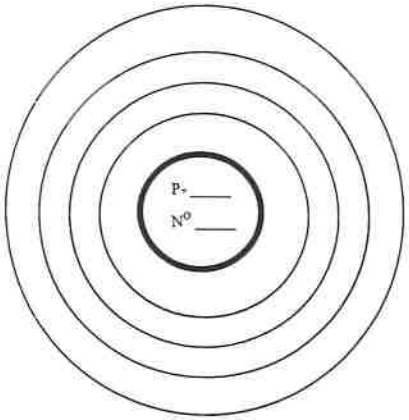

#5 Element_____

Ve⁻ = _____



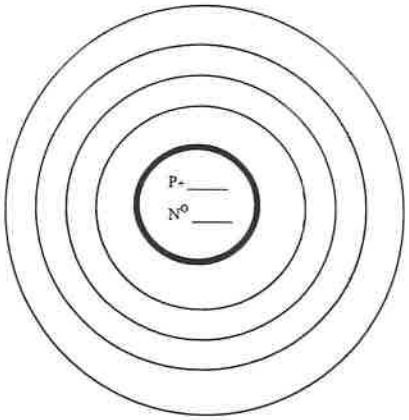

#6 Element_____

Ve⁻ = _____




#9 Element_____

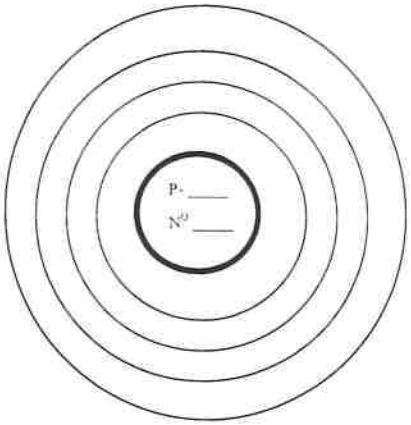
Ve⁻ = _____




#10 Element_____

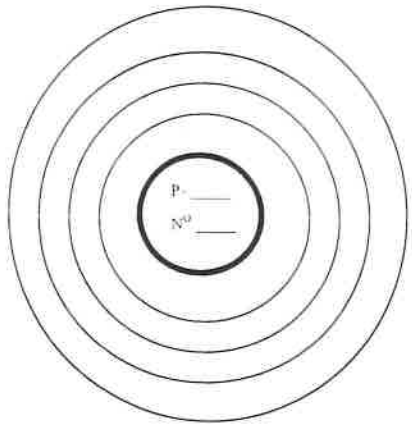
Ve⁻ = _____

Bohr Models: Draw the electrons in their proper energy level. Include the number of protons and neutrons in the nucleus.



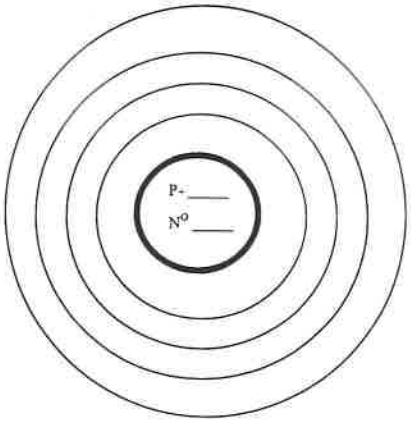

#7 Element_____

Ve⁻ = _____



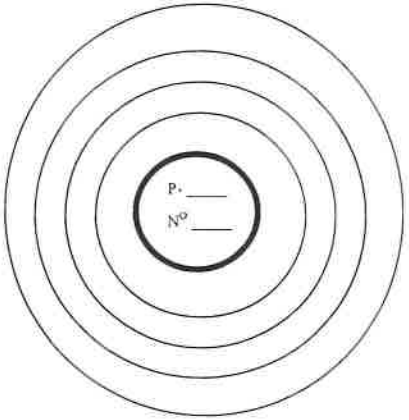

#8 Element_____

Ve⁻ = _____




#11 Element_____

Ve⁻ = _____




#12 Element_____

Ve⁻ = _____