Adding Electrons

- An atom is neutral if there is no charge written behind the atomic symbol
 - o This means that the # of Protons is EQUAL to the # of Electrons
- Electrons fit into orbitals
 - The s orbital always fills up first
 - s orbitals hold 2 electrons
 - The p orbital fills up second
 - p orbitals hold 6 electrons
- As atoms get bigger, they need more orbitals to hold their electrons
 - o This atom has a total of 3 orbitals
 - 1-s fills up first (2 electrons)
 - 2-s fills up next (2 electrons).
 - 2-p fills up next (6 electrons)
- Lets use Ne as an example
 - o Ne has an atomic number of 10, so it has 10 protons
 - o It is neutral, so it also has to have 10 electrons
 - We would add the electrons in this order:



