

Electron Dot Diagrams

Name _____

Draw an electron dot diagram for each of the first 18 elements in the boxes below. Start in the upper left corner with hydrogen.

1. What do you notice about all the elements in the same group?
2. What do you notice about how the elements change as you move from left to right across one period?
3. Why are only the outer electrons shown in dot diagrams? Why are the internal electrons not shown too? I mean, they're electrons too. Are they not that important or what?
4. The most important thing for an atom is to have _____ electrons in their outer energy level (except helium).
5. If an atom loses one electron in order to bond, what will be the electrical charge on the ion that is formed? _____
6. Explain why elements in group 1 really like to bond with elements in group 17.