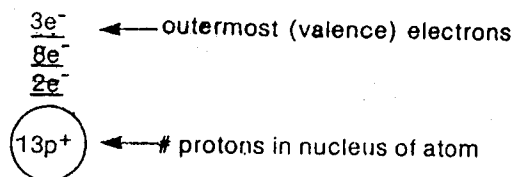


ATOMIC STRUCTURE

Give the energy level representation for each of the following atoms. Note the example.

Example: aluminum atom, Al



1. hydrogen atom, H
2. helium atom, He
3. carbon atom, C
4. oxygen atom, O
5. sodium atom, Na
6. aluminum atom, Al
7. phosphorus atom, P
8. chlorine atom, Cl
9. argon atom, Ar
10. calcium atom, Ca
11. What is the relationship between group number and number of outermost (valence) electrons?
12. What is the relationship between period number and the number of energy levels in which electrons are accommodated?