

## CHM 101

**Objectives:**

- Explain the nature of light and how it reveals the electron structure of the atom.
- Write the electron structure of elements
- Relate electron structure to the periodic table

1. Light is a form of what type of energy?
  - Give 2 examples of other forms of this type of energy.
2. What is the meaning of wavelength and frequency of light?
3. White light produces a continuous spectrum. Elements that are excited produce a line spectrum. What is a line spectrum?
4. Different metals emit different colored light in flame tests. This light originates from inside the metal atoms. Explain what was happening inside these atoms that causes the various colors of light. Be specific.
5. What is an orbital?
6. List the orbitals that exist in the following energy levels. Indicate the number of these orbitals.  
 $n = 1$ ,  $n = 2$ ,  $n = 3$ ,  $n = 4$
7. Indicate the electron configuration of these elements using the shorthand notation and the orbital diagrams.

For example - helium:  $1s^2$ ,  $1s$

Elements: U, C, Mg, Fe, Kr

8. In this periodic chart, indicate the outer orbitals being filled with electrons in the rectangles.

Figure 1: A schematic diagram of a 10x10 grid representing a network. The grid is divided into four colored regions: a brown region on the left (rows 1-7, columns 1-2), a yellow region in the middle (rows 3-7, columns 3-8), a blue region on the right (rows 2-7, columns 9-10), and a green region at the bottom (rows 8-10, columns 1-10). Nodes are represented by small squares with numbers inside. The brown region contains nodes 1-7 in column 1 and 8-14 in column 2. The yellow region contains nodes 15-28 in columns 3-8. The blue region contains nodes 29-34 in columns 9-10. The green region contains nodes 35-40 in columns 1-10. Arrows indicate connections between nodes, showing a complex network structure.

9. Why do elements in the same group have similar properties?

# Electron Configuration Worksheet Packet

**R Bogdan**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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