

Honors Chemistry Periodic Table and electron configuration Test Review Name: *Mrs Keifer*

Objective A: Explain the bright line spectrum for a given element.

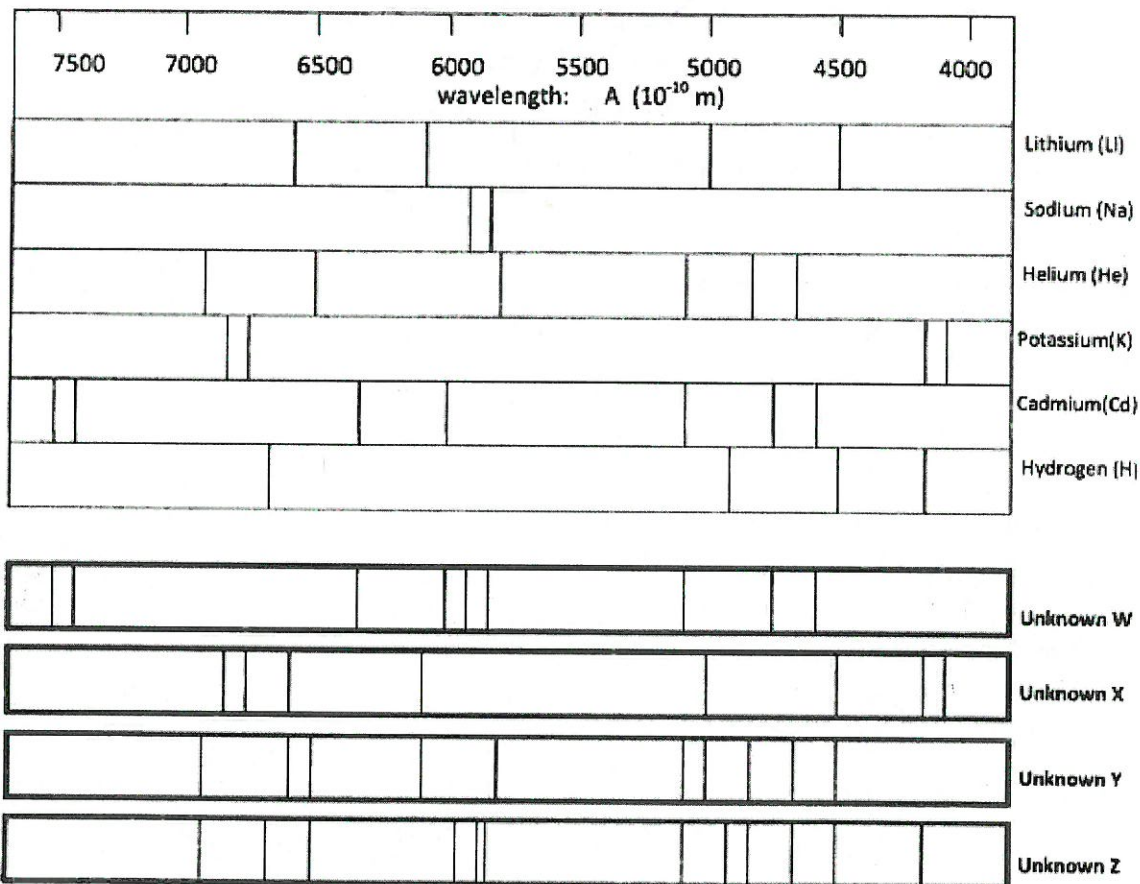
Example questions:

1. What is an atomic emission spectrum?

Series of lines (frequencies) of light emitted from an

Below, bright-line spectral chart for five elements and four unknown samples are given. atom.

Answer questions 7-11 based on the information given in the chart.



2. List all elements present in unknown sample W.

Cadmium, Sodium

3. List all elements present in an unknown sample X.

Potassium, Lithium

4. List all elements present in an unknown sample Y.

Helium, Lithium

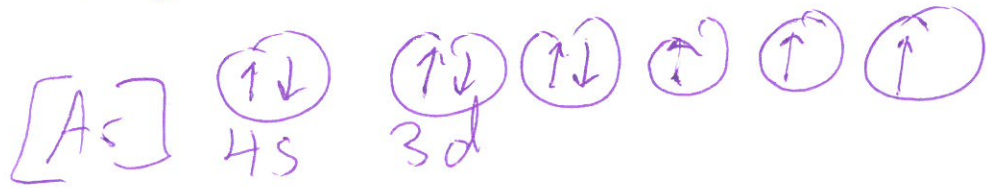
5. List all elements present in an unknown sample X.

K, Li

6. List all elements present in an unknown sample Z.

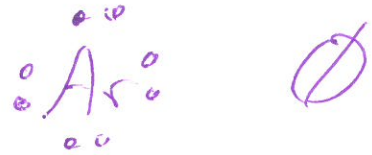
He, H, Na

10.) Co_3



14.) Na^{\bullet}

$\text{Ca}^{\bullet\bullet}$ +2



$\begin{matrix} \bullet\bullet \\ \bullet\text{As}\bullet\bullet \\ \bullet \end{matrix}$ -3

$\begin{matrix} \bullet\bullet \\ \bullet\text{P}\bullet\bullet \\ \bullet \end{matrix}$ -3

$\begin{matrix} \bullet \\ \bullet\text{Al}\bullet \\ \bullet \end{matrix}$ +3

$\begin{matrix} \bullet \\ \bullet\text{C}\bullet \\ \bullet \end{matrix}$ +/-4

$\begin{matrix} \bullet\bullet \\ \bullet\text{Cl}\bullet\bullet \\ \bullet \end{matrix}$ -1