### A Periodic Table Logic Problem

Purpose: In this activity you will use a set of clues to identify a set of unknown elements in a periodic table. The elements are the elements with atomic numbers 1-20 and 31-36. A letter of the alphabet is used to represent each unknown element. The letter designation is not related to an element's chemical symbol. Each clue refers to a property of an element or a relationship an element has to other elements in the periodic table. Along with logic and knowledge of properties, you will use the periodic trends to solve the puzzle.

Grade: Neatness and completeness count.

Procedure: Use the following trend clues to place the elements in their proper places on the provided periodic table. Try to identify the elements with direct clues first. For example, B is a direct clue because it identifies only one element. Group 1 Group 2 Group 13 Group 14 Group 15 Group 16 Group 17 Group 18

Work copy

Group I	Group 2		Group 13	Group 14	Group 15	Group 16	Group 17	Group 18
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7-2			) <del>(2</del>	· · · · · ·	-	1 1	3=0	

A - Has one of the highest electronegativities on the table that is NOT a halogen.

B – Has one electron in a 3p orbital.

C - Has five electrons in the 4th energy level.

D – Forms the smallest 2+ ion.

E - Transition Metals are found in these groups

F – Electron configuration is 1s<sup>2</sup> 2s<sup>2</sup> 2p<sup>6</sup> 3s<sup>2</sup> 3p<sup>3</sup>

G – The most electronegative element.

H - An ion of this element with a 2+ charge has 18 electrons.

I – This group is known as the Halogens

J-It's shorthand electron configuration must have element M in brackets

# **Periodic Table Logic Problem**

**WJ Hussar** 

**Periodic Table Logic Problem:** 

Unveiling the Magic of Words: A Overview of "Periodic Table Logic Problem"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Periodic Table Logic Problem**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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