

## 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 1	Group 2		Group 13	Group 14	Group 15	Group 16	Group 17	Group 18
–								–
–	–	–	–	–	–	–	–	–
–	–		–	–	–	–	–	–
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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  $1s^2 2s^2 2p^6 3s^2 3p^3$

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

# Elements Of The Periodic Table Logic Questions

**Wolfgang Guggemos**



## **Elements Of The Periodic Table Logic Questions:**

## Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Elements Of The Periodic Table Logic Questions**

In a global inundated with monitors and the cacophony of immediate transmission, the profound power and mental resonance of verbal artistry usually diminish in to obscurity, eclipsed by the regular barrage of sound and distractions. However, set within the musical pages of **Elements Of The Periodic Table Logic Questions**, a captivating work of literary elegance that pulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that enchanting opus books visitors on an emotional odyssey, gently revealing the latent possible and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is key styles, dissect their fascinating writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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