

## 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
-								-
-	-	-	-	-	-	-	-	-
-	-		-	-	-	-	-	-
-	-		-	-	-	-	-	-

- 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

# A Periodic Table Logic Problem

**Wolfgang Fikentscher**

## A Periodic Table Logic Problem:

**Rare-earth Elements and Their Position in the Periodic System (Redkozemel'nye Elementy i Ikh Mesto V Periodicheskoi Sisteme)** Translated from Russian. **Moskva, Nauka, 1966** Dmitrii Nikolaevich Trifonov, 1970

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