

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

Periodic Table Logic Problem Answer Key

Roman Wölfel



Periodic Table Logic Problem Answer Key:

Reflection, Science and the Virtues Tony Gibbons, 2009-01-01 The word reflect appears in curriculum documents in texts in proposals and in plans No proposal appears complete without the word To reflect is evidently a good thing but what does it mean It is not just being reasonable Without a grasp of what it means to reflect how is it possible to implement the proposals and plans This book tackles the problem of what it is to reflect In doing so it examines the importance of reflection for a flourishing human being and its place in two major areas of human thought and education science and ethics Science is essentially a reflective activity and the teaching and development of science must acknowledge this The acquisition and practice of the virtues is also essentially a reflective activity as is evident in both the Aristotelian and the Confucian traditions To be prudent for instance is to be reflective The teaching of science and the learning of the virtues depend upon the development of the capacity to reflect Reflection appears to be an activity that is distinctive of human beings This book will be of interest to teachers and those responsible for the administration and development of education whether it be primary secondary or tertiary It also has something to say to anyone who is responsible for planning for the future And as we all do that it has something to say to all of us Tony Gibbons is an adjunct Senior Lecturer at the University of South Australia After teaching science and mathematics in UK secondary schools he trained teachers at Colleges in the UK before moving to South Australia where he taught Philosophy Having qualified in law he appeared as a barrister in refugee cases both in Australia and overseas during the 1990s before returning to Philosophy in particular virtue ethics

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