

Science & Technology 404

Puzzle

The elements in this periodic table have been replaced by letters of the alphabet. Use the clues below to fill in the table.

Clues

1. Elements in the same column belong to the same chemical group or family: ABCD, EFG, IJK, LMN, OPQ, RST, UVW, XYZ.
2. Element H could belong to Group IA or Group VIIA.
3. B has 10 electrons.
4. X needs 3 electrons to have the same electron configuration as B.
5. R has 4 valence electrons.
6. U has the lightest atomic mass in its group.
7. Y is located in the 3rd period.
8. A has its electrons arranged in a single electron shell.
9. N is in the group that is most likely to give up an electron.
10. E can lose 3 electrons to achieve the electron configuration of A.
11. Q is the lightest element in the halogen group.
12. V can be represented as 2) 8) 2).
13. T has the lowest density in its group.
14. I contains fewer electrons than K.
15. Q is much more like O than it is like P.
16. C has four energy levels.
17. S has one more proton than F.
18. L, K, G and V all have the same number of electron shells.

H

A

N	U
L	V
N	W

E	T	X	I	Q	B
G	R	Y	K	O	D
F	S	Z	J	P	C