

Periodic Table of the Elements on Mars

Below is a list of the 30 elements found on Mars. Place them in their proper place in the Martian Periodic Table using the information below. Martian elements follow the same natural laws as the elements on Earth. (Note: The symbols and the elements described below are fictitious.)

ELEMENT LIST

- | | |
|---|---|
| A | P |
| B | Q |
| C | R |
| D | S |
| E | T |
| F | U |
| G | V |
| H | W |
| I | X |
| J | Y |
| K | Z |
| L | ☒ |
| M | ♀ |
| N | ⊛ |
| O | ‡ |

		+1							0
1			+2	+3	+4	-3	-2	-1	
2									
3									
4									
5									

Use the descriptions below to put the elements in the proper place on the Martian Periodic Table.

1. The most metallic element is R.
2. The most nonmetallic element is O.
3. The inert gases are L, ♀, G, and V. Lis the lightest, G is the heaviest and ♀ is in period 2.
4. Their lightest element of all is E.
5. All of the following elements have three shells and the number of outermost electrons for each is as follows: K = 1; H = 2; ‡ = 3; W = 4; I = 5; D = 6; and C = 7.
6. Element W has 14 protons.
7. B has 7 electrons.
8. Q has an atomic weight of 5 and a +1 oxidation state.
9. Y has only 1 electron in its outermost shell, but has 4 shells.
10. The N family is made up of the elements N, ‡, P, and X in order of increasing weight.
11. J is the heaviest of all atoms and is radioactive.
12. M is in period 5 and has an oxidation state of +2.
13. ⊛ is in period 2 and group 2
14. U is like our element carbon and is in the same family as W, Z, and J.
15. Their solvent, like our most important liquid has the formula E₂F.
16. The oxidation states of the following elements are: ☒ = -1; S = + 2; A = -2, and T = -3
17. Now every space should be filled. Can you give each element its proper atomic number?