

Mystery Elements in a Mock Periodic Table

Procedure: Using your knowledge of valence electrons and the periodic table, fill in the mystery elements in their proper spaces.

Drag and drop the element symbol to the correct location

1. Element Ph is a Noble gas with its 4th energy level filled with 8 electrons. Family __ Period __ Ph
2. Element Bc has its 2nd energy level filled with 8 valence electrons. Family __ Period __ Bc
3. Element X has only 1 valence electron and is in the same period as element Ph. Family __ Period __ X
4. Element Tq has 2 valence electrons and two energy levels. Family __ Period __ Tq
5. Element Ra is in the same period as element Bc and has 1 valence electron. Family __ Period __ Ra
6. Element Qr is a Nobel gas with the smallest atomic number. Family __ Period __ Qr
7. Element St is also a Nobel gas. Family __ St
8. Element Rn has 1 valence electron and three energy levels. Family __ Period __ Rn
9. Element Az has 1 valence electron and the highest atomic number of that family. Family __ Az
10. Element Z has 2 valence electrons and the highest atomic number in the family. Family __ Z
11. Element B has 7 valence electrons and only 2 energy levels. Family __ Period __ B
12. Element O has 6 electrons in its outer level and 3 energy levels. Family __ Period __ O
13. Element Sp has 7 valence electrons and in the same period as Rn. Family __ Period __ Sp
14. Element Mk is in the same family as element B Family __ Period __ Mk
15. Element H is a metal with 2 valence electrons and 3 energy levels. Family __ Period __ H
16. Element Hp has the lowest atomic number of all the elements. This mean it's Atomic number is __ Hp
17. Element Pt is a metalloid in the same period as X, it has 5 valence electrons. Family __ Period __ Pt
18. Element J is a metalloid with the lowest atomic number of all metalloids. It's atomic number is __ J
19. Element I and R are both in the same period as element Z, but R has a higher atomic number than I. I and R are on Period __ R goes farther to the __ I R
20. Element Tk has two valence electrons. Family __ Period __ Tk

ENERGY LEVELS ARE THE PERIODS and go ACROSS

Families are valence electrons and go in columns

	1						8
1		2					
2							
3							
4							
5							