# Lesson Element

# Periodicity crossword

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### Across

5.From one element to the next in the periodic table there is one more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the outer shell. (8)

8. A trend in properties of elements moving from left to right across the periodic table. (6,2,3-6)

9. The halogens are to be found in this part of the periodic table. (1-5)

11. The element in period 3 with the lowest melting point. (5)

12. Each period in the periodic table ends with one of these. (5,3)

15. A word that refers to the trends that occur in physical and chemical properties as you move across the periods. (11)

17. Which of these has the higher first ionisation enthalpy? Radium or barium? (6)

20. Which of these has the higher boiling point? Magnesium or aluminium? (9)

21. All the elements in the s-block are these. (8,6)

22. This measures how strongly an atom attracts electrons in a chemical bond. (17)

### Down

1. A horizontal row in the periodic table. (6)

2. The elements in the periodic table are arranged according to their what? (6,6)

3. The transition elements are to be found in this part of the periodic table. (1-5)

4. Energy needed to remove the first electron from an atom or molecule. It increases across a period. (5,10,8)

6. All the elements within a group have the same number of electrons in their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ shell. (5)

7. A vertical column in the periodic table. (5)

10. The number of electrons in the outer shell of a strontium atom. (3)

13. Which has the greater atomic radius: radium or barium? (6)

14. The effect of the electrons in the inner shells reducing the pull of the nucleus on the electrons in the outer shells. (9)

15. Elements in the same group of the periodic table have similar \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (10)

16. Because argon will not conduct electricity it is said to be a good \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (9)

18. The man whose periodic table we use today. (9)

19. The number of electrons in the outer shell of a selenium atom. (3)