



Across

- 1 ____ bonds form when atoms share electrons. (8)
- 3 Horizontal rows on the periodic table. (7)
- 6 Vertical columns on the periodic table (8)
- 9 An atom that gains or loses neutrons (7)
- 10 When elements react chemically, ____ are formed. (9)

- 11 Located along the stair-step line (10)

- 12 Elements in the same column contain the same number of ____ in their outer energy levels. (9)

Down

- 2 Elements are arranged on the periodic table by ____ number. (6)
- 4 Located to the right of the stair-step line (9)

- 5 Used to organize information about the elements. (8,5)

- 7 There are more than 110 known _____. (8)

- 8 The repetitive pattern of properties such as boiling point across periods (11)

- 9 An atom that gains or loses an electron (3)