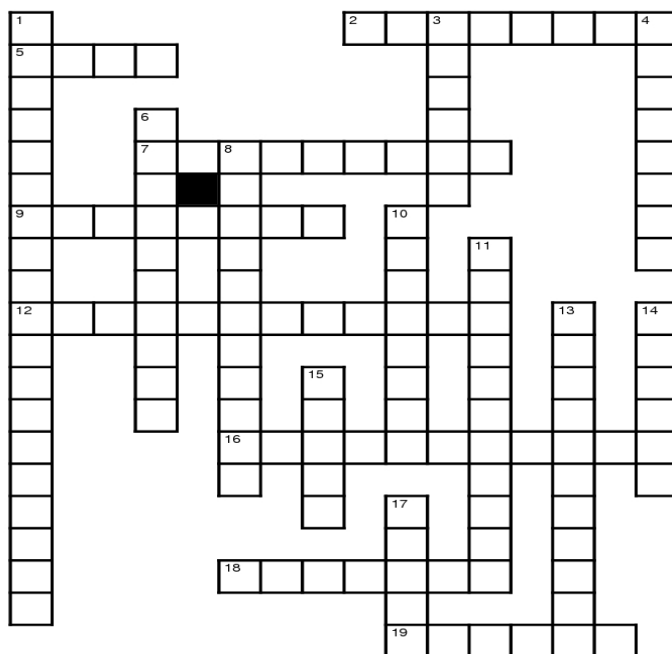


# Atomic Valence

[www.science-teachers.com/physical.htm](http://www.science-teachers.com/physical.htm)



## Down

- 1 The group of metals with a valence of positive two. (8,5,6)
- 3 Atoms that lend electrons. (6)
- 4 Ionic bonds usually \_\_\_\_\_ in water. (8)
- 6 A group of gases that have a valence of zero. (5,5)
- 8 The valence of chlorine. (8,3)
- 10 A bond where electrons are shared instead of lent and borrowed. (8)
- 11 The valence of sodium. (8,3)
- 13 The valence of magnesium. (8,3)
- 14 nonmetals \_\_\_\_\_ electrons when they form compounds. (6)
- 15 Number of electrons in most stable outer shells. (5)
- 17 A bond where atoms are lent or and borrowed. (5)

## Across

- 2 What two atoms produce when they combine. (8)
- 5 Metals \_\_\_\_\_ electrons when they form compounds. (4)
- 7 Atoms that borrow electrons. (9)
- 9 A gas with a valence from -3 to +5. (8)
- 12 The group of metals with a valence of positive one. (6,6)
- 16 The valence of oxygen. (8,3)
- 18 The ability of an atom to borrow or lend electrons. (7)
- 19 An atom with four electrons in its outer shell that forms covalent bonds. (6)

