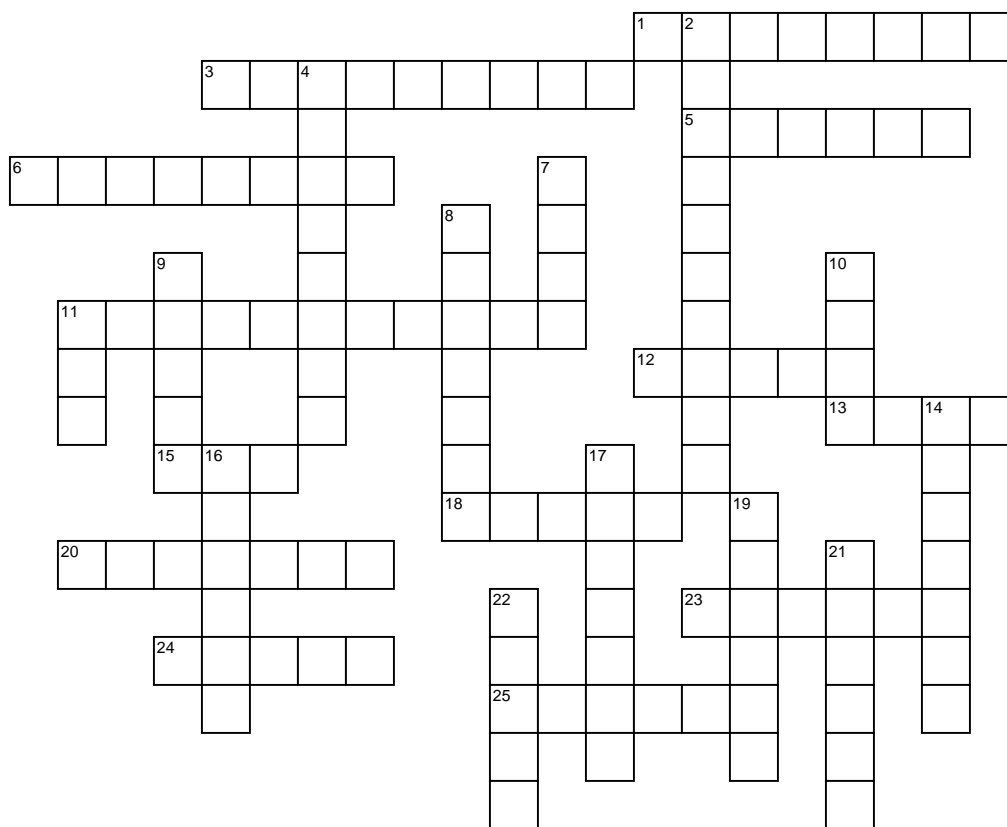


NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ PERIOD: \_\_\_\_\_

## Chemistry – Chapter 6 – The Atom – Form 1C ©



www.CrosswordWeaver.com

### ACROSS

- 1 Maximum number of electrons in the electron shell M
- 3 He discovered radioactivity
- 5 The number of protons determines the atomic \_\_\_\_\_
- 6 First one to measure the charge of an electron
- 11 Another name for the jumping of the electrons between energy levels
- 12 This Bohr's postulate says that radiationless energy states can exist
- 13 It is the source of all forms of light
- 15 Abbreviation for atomic mass unit
- 18 Maximum number of electrons in the electron shell L
- 20 The number of these particles in the nucleus determines the atomic number
- 23 This energy level is called the ground state
- 24 Electron \_\_\_\_\_ is the region in which an electron could be found
- 25 This is emitted when an electron moves closer to the nucleus

### DOWN

- 2 Energy needed to remove an electron from the atom
- 4 He discovered the neutron in the year 1932
- 7 The number of protons + neutrons determines the atomic \_\_\_\_\_
- 8 Louis de \_\_\_\_\_ postulated the wave nature of matter
- 9 This particle is a high frequency photon
- 10 This particle is a high speed electron
- 11 An alpha particle is made up of \_\_\_\_\_ protons and \_\_\_\_\_ neutrons
- 14 The letter "l" is often utilized to indicate this quantum number
- 16 They have low ionization energies
- 17 He discovered the electron in the year 1896
- 19 The electron in the \_\_\_\_\_ state has the lowest amount of energy
- 21 An alpha particle is just the nucleus of that element
- 22 Particles used by Rutherford in his famous experiment

**WORD BANK:** Alpha, amu, atom, becquerel, beta, broglie, chadwick, cloud, eight, eighteen, first, gamma, ground, helium, ionization, lowest, mass, metals, millikan, number, orbital, photon, protons, thomson, transitions, two.

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ PERIOD: \_\_\_\_\_

Chemistry – Chapter 6 – The Atom – Form 1C ©

Solution:

1 E I G H T E E N  
2 O  
3 B E C Q U E R E L  
4 H  
5 N U M B E R  
6 M I L L I K A N  
7 M A S  
8 B A R S  
9 G R O U N D  
10 B E T A  
11 T R A N S I T I O N S  
12 F I R S T  
13 A T O M  
14 T R  
15 A M U  
16 E  
17 T I G H T  
18 E I G H T  
19 G O R  
20 P R O T O N S  
21 H E S T  
22 A L U M  
23 L O W E S T  
24 C L O U D  
25 P H O T O N  
H N D  
A U M