

Name : \_\_\_\_\_ Date : \_\_\_\_\_

## Atomic Structure Worksheet

- 1 The subatomic particle with no electrical charge is the \_\_\_\_\_
- 2 The subatomic particle with a positive charge is the \_\_\_\_\_
- 3 The subatomic particle with a negative charge is the \_\_\_\_\_
- 4 There are the same number of these two particles in an atom \_\_\_\_\_ & \_\_\_\_\_
- 5 The atomic number is the same as the number of \_\_\_\_\_
- 6 Where is most of the mass of an atom located? \_\_\_\_\_
- 7 Which particles account for the mass of the atom? \_\_\_\_\_ & \_\_\_\_\_
- 8 What is the charge of an atom with 7 protons and 9 electrons: \_\_\_\_\_
- 9 What is the charge on an ion with 3 protons and 1 electron: \_\_\_\_\_
- 10 What is the charge on an ion of Chlorine with 17 protons and 18 electrons: \_\_\_\_\_
- 11 What is the charge if there are 59 protons and 62 electrons: \_\_\_\_\_
- 12 Write whether the following sentence are true or false.
  - a The nucleus is the smallest part of the atom and takes up the least space: \_\_\_\_\_
  - b The electrons are the lightest in weight of the three subatomic particles: \_\_\_\_\_
  - c An atom is mainly empty space: \_\_\_\_\_
  - d Electrons are present in the nucleus: \_\_\_\_\_

Name : \_\_\_\_\_ Date : \_\_\_\_\_

# Atomic Structure Worksheet

## Answers

- 1 The subatomic particle with no electrical charge is the neutron
- 2 The subatomic particle with a positive charge is the proton
- 3 The subatomic particle with a negative charge is the electron
- 4 There are the same number of these two particles in an atom protons & electrons
- 5 The atomic number is the same as the number of protons
- 6 Where is most of the mass of an atom located? Nucleus
- 7 Which particles account for the mass of the atom? Protons & Neutrons
- 8 What is the charge of an atom with 7 protons and 9 electrons: -2
- 9 What is the charge on an ion with 3 protons and 1 electron: +2
- 10 What is the charge on an ion of Chlorine with 17 protons and 18 electrons: -1
- 11 What is the charge if there are 59 protons and 62 electrons: -3
- 12 Write whether the following sentence are true or false.
  - a The nucleus is the smallest part of the atom and takes up the least space: False
  - b The electrons are the lightest in weight of the three subatomic particles: True
  - c An atom is mainly empty space: True
  - d Electrons are present in the nucleus: False