

# Atomic Structure

# Worksheet

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

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

Grade: \_\_\_\_\_

## Part A: Fill in the Blanks

1. A neutral atom has the same number of \_\_\_\_\_ and \_\_\_\_\_.
2. The particle with no charge is called a \_\_\_\_\_.
3. The center of an atom is called the \_\_\_\_\_.
4. Isotopes are atoms of the same element with different numbers of \_\_\_\_\_.
5. The electron configuration for a neutral oxygen atom is: \_\_\_\_\_

## Part B: Short Answer

1. If an atom has 6 protons, 6 neutrons, and 6 electrons, what element is it?

Answer: \_\_\_\_\_

2. How many electrons can fit in the first energy level of an atom?

Answer: \_\_\_\_\_

3. What is the difference between atomic number and mass number?

Answer: \_\_\_\_\_

4. What are valence electrons and why are they important in chemistry?

Answer: \_\_\_\_\_