

## Atoms (Study Guide)

### Fill in the blanks with the correct answers:

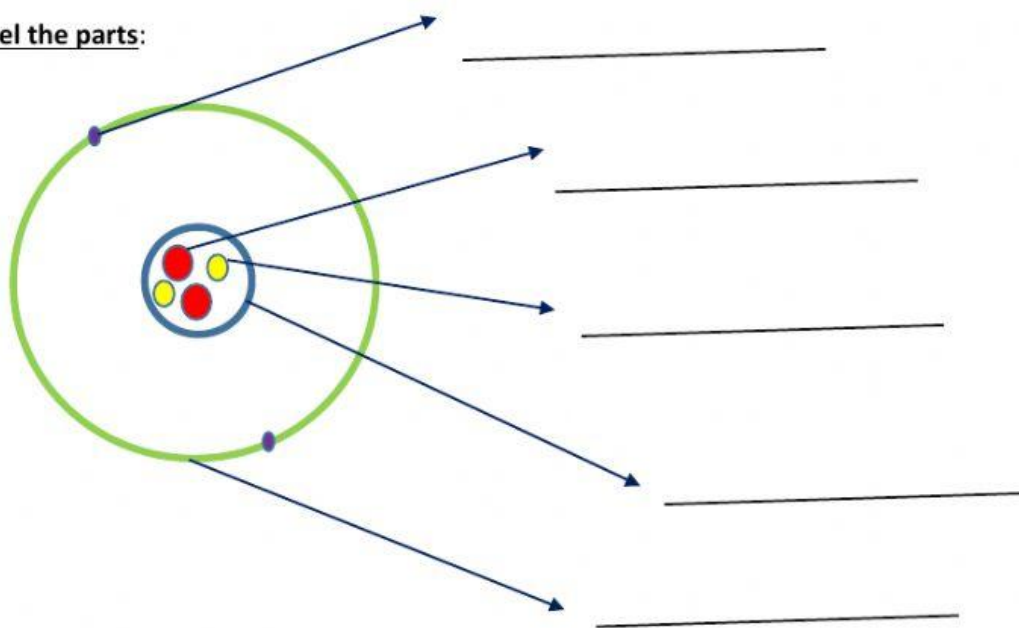
1. All matter is made up of \_\_\_\_\_.
2. \_\_\_\_\_ are the basic building blocks of matter.
3. Atoms come together to form \_\_\_\_\_.
4. The smallest part of matter that still has the same properties of that matter is an \_\_\_\_\_.
5. Matter with one type of atom is called \_\_\_\_\_.
6. Matter with two or more elements is called \_\_\_\_\_.
7. The three subatomic particles found in an atom are \_\_\_\_\_ which have a \_\_\_\_\_ charge, \_\_\_\_\_ which have a \_\_\_\_\_ charge and \_\_\_\_\_ which have a \_\_\_\_\_ charge.
8. \_\_\_\_\_ are the biggest and the heaviest subatomic particles.
9. \_\_\_\_\_ are the smallest subatomic particles.
10. The center of an atom is called the \_\_\_\_\_ and it has \_\_\_\_\_ and \_\_\_\_\_.
11. Spinning around the center are the \_\_\_\_\_.
12. In a stable atom the number of \_\_\_\_\_ is equal to \_\_\_\_\_.
13. The number of protons = \_\_\_\_\_.
14. The number of protons + the number of neutrons = \_\_\_\_\_.
15. The number of neutrons = \_\_\_\_\_ - \_\_\_\_\_.

Label the following:

|       |        |
|-------|--------|
| 6     | Carbon |
| C     |        |
| 12.01 |        |

1. Name of the element \_\_\_\_\_
2. Symbol of the element \_\_\_\_\_
3. Atomic Number = \_\_\_\_\_
4. Atomic Mass = \_\_\_\_\_
5. # Number of Protons = \_\_\_\_\_
6. # Number of Electrons = \_\_\_\_\_
7. # Number of Neutrons = \_\_\_\_\_

Label the parts:



Complete the following:

| Name     | Symbol | Atomic Number | Atomic Mass | # of Protons | # of Electrons | # of Neutrons |
|----------|--------|---------------|-------------|--------------|----------------|---------------|
| Carbon   |        |               |             |              |                |               |
|          | Fe     |               |             |              |                |               |
| Chromium |        |               |             |              |                |               |
|          | Si     |               |             |              |                |               |
| Boron    |        |               |             |              |                |               |