Ch 3-4: What is an atomic number? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Ch 3-5: What is an atomic mass?

Basic Physical Science Notes S2 2019

Key Terms Ch 3-4:

1. Atomic number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill-in-the-blank Ch 3-4:

1. The atomic number is the number of \_\_\_\_\_\_\_\_\_\_ in the nucleus of the atom.
2. Every \_\_\_\_\_\_\_\_\_\_\_\_ has its own atomic number.
3. No two elements have the same \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.
4. The number of protons in an atom is equal to the number of \_\_\_\_\_\_\_\_\_\_\_\_ in the atom.

Short Answer Ch 3-4:

1. Complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Atomic #** | **# Protons** | **# Electrons** |
| Calcium |  |  |  |
| Carbon |  |  |  |
| Fluorine |  |  |  |

1. What is the relationship between the # protons and the atomic number?
2. How is the atomic number like a fingerprint?
3. If the atom is neutral (that means it isn’t + or -) what do we know about the # of protons and # of electrons?

Key Terms Ch 3-5:

1. Mass number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill-in-the-blank Ch 3-5:

1. The mass of a neutron is the same as the mass of a \_\_\_\_\_\_\_\_\_\_\_\_.
2. Because they are so small, \_\_\_\_\_\_\_\_\_\_\_ are not counted when measuring the mass of an atom.
3. The # protons + # neutrons = \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.

Short Answer Ch 3-5:

1. Complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Mass #** | **# Protons** | **# Neutrons** |
| Calcium |  |  |  |
| Carbon |  |  |  |
| Fluorine |  |  |  |

1. Where is most of the mass of an atom located?
2. The atomic number of element x is 30 and the mass number is 65. Find the number of protons, neutrons, and electrons in an atom of element x.

Protons: Neutrons: Electrons: