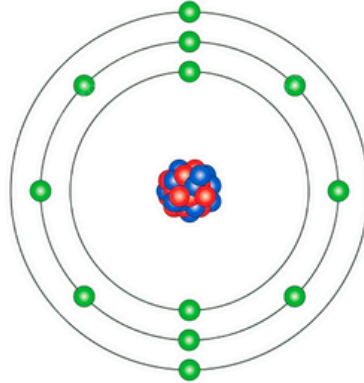


Atomic Structure Worksheet

1) For the atomic structure shown below, answer the following questions:



- What element is the atom shown above?
- What is the chemical symbol of the element?
- What is the mass of the atom shown above?
- How many valence electrons are there in the atom above?

2) Which subatomic particle did J.J. Thomson discover in order to create his plum pudding model of the atom?

3) The nucleus was discovered by which scientist?

- Thomson
- Dalton
- Rutherford
- Democritus

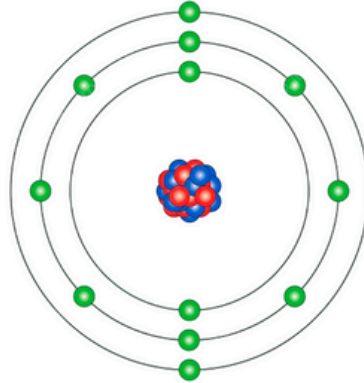
4) Do neutral atoms of the same element differ in

- Mass number
- Atomic number
- Number of protons and electrons

Atomic Structure Worksheet

Answer Key

1) For the atomic structure shown below, answer the following questions:



- What element is the atom shown above? **Magnesium (Mg)**
- What is the chemical symbol of the element? **Mg**
- What is the mass of the atom shown above? **24 amu**
- How many valence electrons are there in the atom above? **2**

2) Which subatomic particle did J.J. Thomson discover in order to create his plum pudding model of the atom?

Electron

3) The nucleus was discovered by which scientist?

- Thomson
- Dalton
- **Rutherford**
- Democritus

4) Do neutral atoms of the same element differ in

- **Mass number**
- Atomic number
- Number of protons and electrons