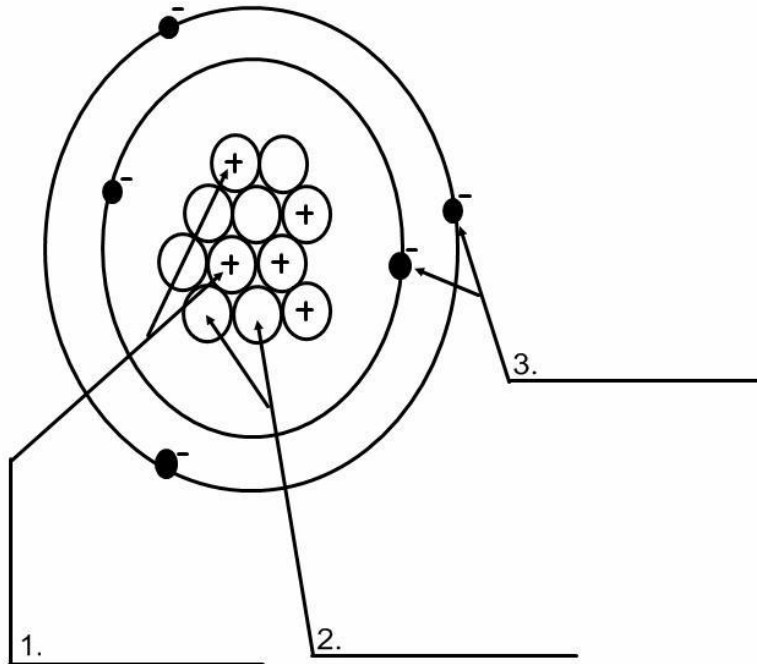


Target Practice, Unit 2 Test, Topic #1 – Atomic and Molecular Structure

Label the parts of an atom on the diagram below.



4. What type of charge does a proton have?

5. What type of charge does a neutron have?

6. What type of charge does an electron have?

7. Which two subatomic particles are located in the nucleus of an atom?

8. If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?

9. What is the atomic number of the atom in the diagram above?

10. What is the atomic mass/mass number of the atom in the diagram above?

11. How many protons are in the nucleus of an atom with an atomic number of 15?

12. How many electrons are in the nucleus of an atom with an atomic number of 20?

13. In a neutral atom, the number of protons is equal to the number of: _____

14. Sometimes, the number of neutrons in a given atom is not equal to the number of protons. What are these atoms, with differing numbers of neutrons, called?

15. Explain the difference between ionic and covalent bonds. In your explanation, describe how positive and negative ions are formed.