

Name: _____ Date: _____

Atomic Theory Worksheet

Answer the following questions.

1) What did J.J.Thomson discover?

2) What was James Chadwick's contributions to the atomic model?

3) Who first suggested the concept of the atom?

4) What was the name of the experiment used by Ernest Rutherford to determine the existence of the nucleus?

5) What is the ratio of atoms in HCl?

6) Who came up with the "solar system" model of the atom?

7) Which part of the atom is the "sun" in the "solar system" model?

8) What is the charge of cathode rays?

9) What is the ratio of atoms in H_2O ?

10) Who was the scientist that proposed that the atom is the smallest part of matter?

11) What is the positive particle present in the atom?

12) What is the ratio of atoms in Cl_2O ?

13) What was the name given to J.J.Thomson's model of the atom?

14) What are the paths in which the electrons circle around the nucleus?

15) What is the atomic model that is currently accepted?

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Answers

- 1) What did J.J.Thomson discover?
Electrons
- 2) What was James Chadwick's contributions to the atomic model?
Neutrons
- 3) Who first suggested the concept of the atom?
Democritus
- 4) What was the name of the experiment used by Ernest Rutherford to determine the existence of the nucleus?
Gold-foil Experiment
- 5) What is the ratio of atoms in HCl?
1:1
- 6) Who came up with the "solar system" model of the atom?
Bohr
- 7) Which part of the atom is the "sun" in the "solar system" model?
The Nucleus
- 8) What is the charge of cathode rays?
Negative
- 9) What is the ratio of atoms in H₂O?
2:1
- 10) Who was the scientist that proposed that the atom is the smallest part of matter?
Dalton
- 11) What is the positive particle present in the atom?
Proton
- 12) What is the ratio of atoms in Cl₂O?
2:1
- 13) What was the name given to J.J.Thomson's model of the atom?
Plum Pudding Model
- 14) What are the paths in which the electrons circle around the nucleus?
Orbitals
- 15) What is the atomic model that is currently accepted?
Electron Cloud Model