

Atomic History Worksheet Answer Key

Democritus Proposes the Atom

1. The word *atom* comes from a Greek word that means **indivisible**.
2. Which of the following statements is part of Democritus's theory about atoms?
 - a. **Atoms are the smallest piece of matter.**
 - d. **Atoms exist but will never be fully proven.**
3. We know that Democritus was right about atoms. So why did people ignore Democritus's ideas for such a long time?
Democritus's ideas were ignored for a long time because he had no proof of the atoms existence and people believed Aristotle's ideas.

Dalton Creates an Atomic Theory Based on Experiments

4. By conducting experiments and making observations, Dalton figured out that elements combine in random proportions because they're made of individual atoms. **False**
5. Dalton's theory states that atoms cannot be **changed, created, or destroyed**.
6. Atoms of different elements are exactly alike. **False**
7. How did Dalton think atoms formed new substances?
Atoms can be combined in set proportions to form new substances.

Thomson Finds Electrons in the Atom

Mark the following statements *True* or *False*.

8. In 1897, J. J. Thomson made a discovery that proved Dalton's atomic model was correct. **False**
9. Thomson discovered that there were small particles inside the atom. **True**
10. Thomson found that the electrically charged plates affected the direction of a cathode-ray tube beam. **True**
11. Thomson knew the beam was made of particles with a positive charge because it was pulled toward a positive charge. **False**
12. The two types of charges are positive and neutral. **False**

History Of The Atom Answer Key

DJ Losen



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