

Directions: Answer the following questions in complete sentences on a separate sheet of paper.

1. What is an atom.
2. What does cutting have to do with the definition of the atom?
3. How long passed between the first idea of the atom and when the idea was used the idea to explain chemical changes?
4. What are the four parts of Dalton's atomic theory?
5. According to Figure 4-3 what is the difference between a mixture and a compound?
6. What was wrong with Dalton's assumptions?
7. What are electrons?
8. How were electrons discovered?
9. Why does the beam turn in Figure 4-7
10. What are protons?
11. What does Figure 4-8 show?
12. What is the nucleus?
13. How was the nucleus discovered?
14. Why is there a picture of a football game on pg. 73?
15. How are atoms of one element different from the atoms of another element?
16. What do the atomic number tell us?
17. Why did scientists develop the atomic mass unit?
18. What is the mass number?
19. What are isotopes?
20. How are isotopes different from each other?
21. How are isotopes alike?
22. How do we write the mass number and atomic number in the symbol?
23. What is the atomic weight?
24. What is a weighted average?
25. Why is the atomic mass of hydrogen close to 1.0 amu?