

Partner Test Study Guide

Know the following. Be sure you're able to apply the concepts.

1. Independent Variable
2. Dependent Variable
3. Constants
4. Control
5. Scientific Method ((Basic order: Question/Problem, Hypothesis, Experimental Design, Collect Data/Results, Analyze Results, Form Conclusion, Peer Review, and Future Research/Inquiries)
6. Quantitative Data vs. Qualitative Data (which is more vital than the other?)
7. Scientific Law vs. Theory
8. Pseudoscience
9. Results vs. Analysis
10. Empirical Observation
11. Metric System vs. English System
12. Peer Review
13. Parts of an Atom and their charges.
14. Nucleus of an Atom
15. How to Read the Periodic Table
16. Isotope
17. Element
18. Bonds (covalent vs. ionic)
19. Bohr Model
20. Electron Dot Diagram
21. Valence Electrons
22. Compound
23. Substance, Mixture distinction
24. Families of Elements (Alkali Metals, Alkaline Earth Metals, Transition Metals, Lanthanide Actinide Series, Halogens, Noble Gases, Metalloids)
25. Groups/Periods
26. Metal vs. Nonmetal
27. Chemical Formula
28. Subscript vs. Superscript
29. Coefficient
30. Balanced Equation vs. Unbalanced Equation
31. Chemical Change/Physical Change
32. Ion
33. Cation
34. Anion