

ERROR-DRIVEN LEARNING

Error-Driven Learning. This is one of the three biological mechanisms of learning. The other two are **associative (Hebbian) learning** and **reinforcement learning**.

Concept. You have a **goal**, such as answer 20 questions (items) correctly. Perform the task and then determine the number of **errors**. For example, you missed 5 items. Study these 5 items **ONLY to correct the errors**. Later, retest these 5 items to **confirm** that you have corrected the previous errors in learning. Continue this process until there are **no remaining errors**.

Efficient Learning is the systematic process of eliminating what we don't know (**correcting the errors**).

Implementation of Error-Driven Learning. Use the attached **work sheet** to implement **error-driven learning** for the questions associated with each chapter. You may download copies of this form from our website: myfrei.com

Important Caveat. When you study the items missed (errors), make sure you understand **why** the initial selection was wrong and **why** the answer key is the correct. You need to **understand the concepts NOT simply memorize correct answers**. The final exam and state exam questions will not use the same wording as the chapter questions. You need to **understand the concepts** to pass the final and state examinations.

ERROR-DRIVEN LEARNING

WORK SHEET

Chapter _____

Instructions

1. **Circle the item numbers** associated with the chapter quiz.
Example: Chapter 2; items 3, 9, 10, 12, 14, 15, ..., 43 (20 circled items)
2. Circle the correct answer for each item circled.

- | | | |
|-------------|-------------|-------------|
| 1. A B C D | 18. A B C D | 35. A B C D |
| 2. A B C D | 19. A B C D | 36. A B C D |
| 3. A B C D | 20. A B C D | 37. A B C D |
| 4. A B C D | 21. A B C D | 38. A B C D |
| 5. A B C D | 22. A B C D | 39. A B C D |
| 6. A B C D | 23. A B C D | 40. A B C D |
| 7. A B C D | 24. A B C D | 41. A B C D |
| 8. A B C D | 25. A B C D | 42. A B C D |
| 9. A B C D | 26. A B C D | 43. A B C D |
| 10. A B C D | 27. A B C D | 44. A B C D |
| 11. A B C D | 28. A B C D | 45. A B C D |
| 12. A B C D | 29. A B C D | 46. A B C D |
| 13. A B C D | 30. A B C D | 47. A B C D |
| 14. A B C D | 31. A B C D | 48. A B C D |
| 15. A B C D | 32. A B C D | 49. A B C D |
| 16. A B C D | 33. A B C D | 50. A B C D |
| 17. A B C D | 34. A B C D | 51. A B C D |

Instructions:

1. Grade your answers.
2. Total items answered _____
3. Total items correct _____%
4. Total **errors** (items missed) _____
5. Devote **100%** of your study time learning the items you missed (**correcting the errors**).
6. **Later**, retest yourself on **ONLY** the items you missed on the previous take of the quiz to **CONFIRM** that you have corrected the errors (**your misunderstanding of each item missed**).
7. **After the retake**, repeat instructions 1 through 6 (**for the items missed**).

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