Modeling the Learning Process Chapter 7
4 Basic Functions the Brain Uses for Learning

- Getting Information
- Making Meaning of Information
- Creating New Ideas
- Acting on Those Ideas
Learner *Begins* as **Receiver** of Knowledge
Gathering
Information Enters through Senses

- Can you remember four things that influence this gathering?
  - Interest
  - Intent
  - Basic Background (prior knowledge)
  - Understanding
Gathering takes place in the sensory cortex
You discovered:

- A system for reading textbook assignments
- You surveyed material you were responsible for and read it paragraph by paragraph
Analyzing to Make Meaning

**REFLECTION**

- Try to make personal
- Try to determine connection to past experiences
- Try to discover relevance and usefulness
- Try to discover what it's like that we already know.
Analyzing takes place in the Back Integrative cortex
Reading Textbooks

Analyzing

- You analyzed your notes
- Analyzed each paragraph
- Wrote questions in the margin
- Looked for connections
Creating
Convert comprehension to

- Ideas
- Hypothesis
- Plans
Reading Textbooks

Creating

- You reflected and reviewed your marked text and questions
- Predicted possible test questions involving higher level thinking skills.
- Looked for connections with notes you had taken in class.
Creating Takes Place in the front integrative cortex
Testing Ideas

- Writing
- Speaking
- Drawing
- Can you think of other ways?
Acting Takes Place in the Motor Cortex
Reading Textbooks

Acting

- You developed:
  - Summary sheets
  - Maps
  - Power Points
  - Practice Tests
Learner becomes

Producer of Knowledge