

Overview of the Information-Processing System

- The Stages of Information Processing
- The Flow of Information During Learning

Sensory Memory

- Selective Attention
- Automaticity
- Pattern Recognition and Perception

Working Memory

- Rehearsal
- Encoding

Long-Term Memory

- Representation and Storage of Information
- Network Models of LTM
- Feature Comparison Models of LTM
- Propositional Models of LTM
- Parallel Distributed Processing (PDP) Models of LTM

- Dual-Code Models of LTM
- Retrieval of Learned Information
- Recall
- Recognition
- Encoding Specificity
- Forgetting

Implications of CIP for Instruction

- Providing Organized Instruction
- Arranging Extensive and Variable Practice
- Enhancing Learners' Self-Control of Information Processing

Conclusion**A CIP Look at "Kermit and the Keyboard"****Theory Matrix****Suggested Readings****Reflective Questions and Activities**

Consider these scenarios.

- **A Tale of Two Readers**

Sarah lives in a small rural community and participates nightly in the county's adult literacy program. She reads haltingly, sounding out unfamiliar words. The selection she has chosen to work on this week is a simple tale about village life, and she is able to comprehend the gist of the text quite easily.

Rosemary decided to go back to graduate school when the last of her three children graduated from high school and left home for college. Although her children had used their home desktop computer regularly for school assignments, Rosemary had never bothered to learn. Now, some of her courses required access to the Internet, so she was forced to purchase a modem. The salesperson (and her classmates) assured her that hooking it up and using it was a simple matter. Unfortunately, an operating problem sent Rosemary to the manual about the modem, where she attempted to make sense of sentences such as, "The primary application for the local digital loopback is to permit a modem that is not CCITT V.54 compatible to engage in a remote digital loopback test with your modem."