Instructional Strategy Decisions

1. Delivery Strategies
   General delivery methods - lecture, computer-based, group vs. individual, discovery, etc.

2. Generative/Cognitive Strategies
   Helping people to remember and make connections

3. Instructional Prescriptions
   Specific instructional sequences to achieve different kinds of learning outcomes --
Delivery Strategies

General delivery methods:

Lectures/presentation
Discussion
Tutorials
Problem-solving
Cooperative learning

Demonstration
Drill and practice
Simulations/role plays
Discovery

Degree of individualization, stand-alone, etc.
Generative/Cognitive Strategies

**Generative learning** . . . .

- deeper processing
- relating information to several existing ideas and generating more meaningful relationships
- becomes more resistant to forgetting
Generative/Cognitive Strategies

1. Recall – lowest level of cognitive learning

- repetition
- rehearsal
- review
- mneumonics

Stolovitch & Keeps:
Repetition
Memory aids
Generative/Cognitive Strategies

2. Integration – transforming something into a more easily remembered form

- paraphrasing
- generating questions/examples from new information
Generative/Cognitive Strategies

3. Organizational – helps identify how new ideas relate to existing ideas

• analyzing key ideas
• outlining
• categorizing

Stolovitch & Keeps: Advance Organizers Clustering
Generative/Cognitive Strategies

4. Elaboration – requires adding ideas to new information
   - generation of mental images
   - physical diagrams
   - sentence elaborations

Stolovitch & Keeps: Spatial Image-rich comparisons