

The Pathways Learning Model

Organizing and Integrating

- classifying
- defining
- dev. analogies
- dev. metaphors
- evaluating
- generalizing
- interpreting
- prioritizing
- reflecting
- representing
- sequencing
- seriating
- sorting
- summarizing
- symbolizing
- synthesizing

Declarative
Procedural
Conditional

Activating and Engaging

- associating
- brainstorming
- enumerating
- estimating
- forecasting
- hypothesizing
- identifying
- predicting
- problem posing
- recalling
- speculating
- visualizing

Exploring and Discovering

- analyzing
- comparing
- computing
- contrasting
- describing
- distinguishing
- experimenting
- explaining
- identifying
- inferring
- measuring
- observing
- questioning
- relating
- seeking causality
- seeking effects

Cognitive Processes in Learning-Focused Classrooms

Strategies in each phase of the Pathways Learning Model cue specific types of student thinking. The Activating and Engaging phase prompts generative and associative thinking; Exploring and Discovering exercises processing skills; and the Organizing and Integrating phase directs the learner towards synthesis and evaluation. The graphic above displays the recursive nature of learning. Although the instructional design identifies strategies in each phase of the Model, an engaged learner's thinking will move within and among each phase in a variety of ways while moving towards deeper understanding.

The Pathways Learning Model

Organizing and Integrating

Synthesize and represent information
Develop frameworks and models
Catalog and index new understandings

Managing
Modeling
Mediating
Monitoring

Activating and Engaging

Engage prior knowledge, skills, and understandings
Expand the knowledge base for individuals and groups
Surface and articulate frames of reference

Exploring and Discovering

Examine and differentiate information in light of current schema
Investigate hypotheses, concepts, and principles
Reconsider and tentatively refine schema

Organizing Principles of Learning-focused Classrooms

Each phase of the Pathways Learning Model is purposefully designed to support current learning theory. The framework is implemented in a learning environment where student engagement with information and materials (authentic tasks) and with fellow students (interactive group work) combines with conscious monitoring of student success and instructional effectiveness (on-going assessment).