South Dakota State University

ECE 478: Integrated Curriculum in Birth-to-Age-8 Education

Concepts addressed in this course: Major categories, advantages, and appropriate uses of instructional strategies: discovery learning

Review lecture notes from science/social studies:

Discovery Teaching

A constructivist approach - students begin learning with an activity designed to lead them to particular concepts or conclusions. Students acquire basic and advanced knowledge in random order.

Learner is active
Challenge & stimulate mental connection-making: new & known
Construct own understanding of reality
Capitalize on natural curiosity

Teaching roles:
Presenter
Observer
Question asker & problem solver
Environment organizer
Public relations coordinator
Documenter of learning
Theory builder

KWHL Charts:
What do I KNOW about...?
What do I WANT to know about...?
HOW can I find out about...?
What did I LEARN about...?
The 4E inquiry lesson plan
Exploration
Explanation
Expansion
Evaluation

Helpful Websites:
http://www.nwlink.com/~donclark/hrd/history/discovery.html
http://copland.udel.edu/~jconway/EDST666.htm#dislrn
http://coe.sdsu.edu/eet/Articles/discoverylearn/index.htm
http://scied.gsu.edu/Hassard/mos/2.7.html

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