Teaching Research Online: A Constructivist Strategy

Fabio Chacon, Ph.D., and Liz Romero, Ph.D.

Objectives

- Description of the courses developed
- Constructivist perspective
- Design strategies
- Teaching strategies
Courses

- Research methods
- Goal
- Characteristics

Theoretical Perspective

- Constructivist
- Knowledge construction
- Reflexion
- Self-direction
Instructional Strategies

- Advance organizers
- Rehearsal strategies
- Collaboration strategies
- Chunking Strategies
- Virtual Experimentation
- Metacognitive scaffolding and peer-enabled scaffolding
- Integration strategies
- Feedback
- Evaluation and grades posted in the grade book
- Involvement of the instructor
- Guidance and Scaffolding:

Advance organizers

- Organization of content by modules
- Relate new information with the existing one
- Icebreaker discussions
- Gather and assess information
- Raise questions
- Formulate problems
Rehearsal strategies

- Open ended questions
- Examples
- Feedback

Collaboration Strategies

- Discussion
- Team projects
- Summarize
- Analyze
- Compare
- Contrast
Chunking Strategies

- Concept maps
- Tables
  - Focus on important ideas
  - Relate components

Virtual Experimentation

- Technology
  - Analyze information
  - Solve problems
    - Simulations
    - Interactive experiments
    - Statistical software

Region six represents the least Gross National Product per capita whereas region one receives the least GDP per capita. These are also outliers for regions 3, 2, 5, and 6 where higher GDP per capita are represented but don’t fit in with the average spread of data.
Metacognitive scaffolding and peer-enabled scaffolding:

- Rubrics
- Checklists
- Brainstorming

Integration strategies

- Final project
Feedback

- Motivational
- Corrective
- Confirmation
- Elaborate

Evaluation and grades posted in the grade book

- For Instructors
  - Provide information about progress
  - Implement remedial measures
  - Increase students motivation
    - Learners are informed about how they are performing
Involvement of the instructor

- Promote participation/involvement
- Provide feedback
- Inform about their progress

Guidance and Scaffolding

- Review work in progress
- Provide guidelines
- Respond to questions/comments posted
COLLES Survey


Questions...