Teaching Philosophy

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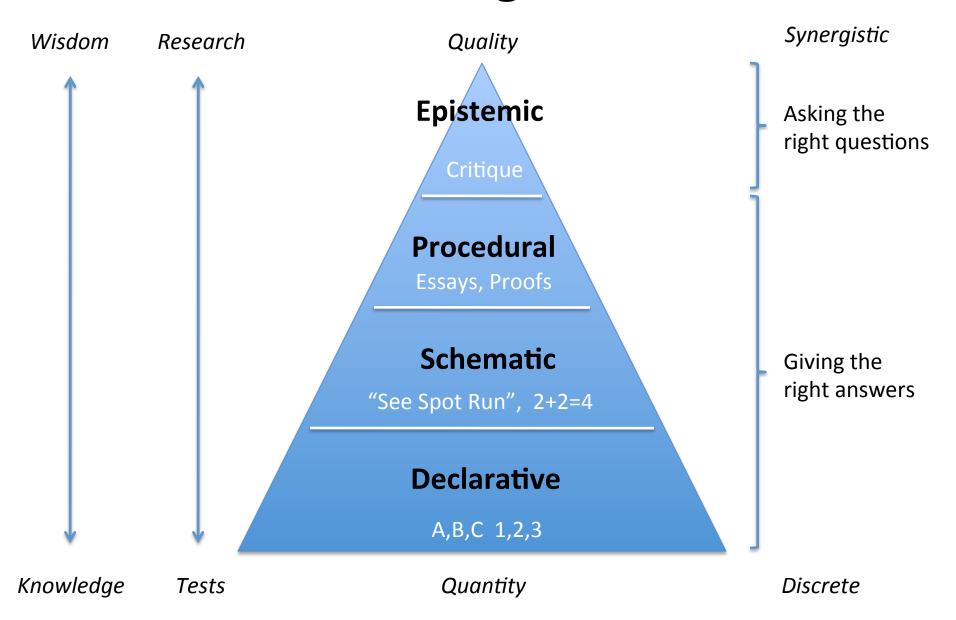


Alexander Calder (July 22, 1898 – November 11, 1976)

Constructivism

- Learning is based on constructs taxonomies of data points (connecting the dots, not just filling them in)
- Emphasis is on experimentation and hands-on experience
- Learning is a collaborative, social process
- Dewey and Montessori were pioneers; Piaget, Vygotsky, and Papert are well known proponents

From Knowledge to Wisdom



Learning Constructs

Declarative

 Basic vocabularies, acquired primarily by repetition (mnemonic techniques help), simple tests provide adequate assessment

Schematic

 Basic constructs, such as grammar and syntax rules, multiplication tables, etc., still acquired primarily by rote, tests still provide adequate assessment

Procedural

 Larger constructs, such as the five paragraph essay or a geometric proof, that require combinations of schema to deliver the desired result, assessment becomes more qualified than quantified

Epistemic

 Knowing how to learn, how to apply previously acquired constructs to unfamiliar problems, assessment increasingly becomes the duty of the learner

Gardner's Multiple Intelligences



My Teaching Goals

- Provide a learning environment that:
 - Is rich with tools for exploration and experimentation
 - Supports collaboration
 - Is stable and secure
- Provide instruction that:
 - Uses multiple modalities to support different learning styles and types of information
- Use assessments that:
 - Emphasize growth, iterative learning, trial and error
 - Reward integrity, curiosity, and persistence

The A++ Recipe for Success

- A++itude
 - Professional, respectful, courteous, curious
- A++endance
 - Regular and prompt
- A++ention
 - Focused
- = A++ainment of your goals

What's really at stake?

- Much more than just a grade or a few more credits toward graduation
- Opportunities for UG research and publication, such as URECA and CIT
- Opportunities for mentoring, such as 475
- Recommendations for employment and graduate school
 - at least 2 semesters of research-related coursework