The Promises and Challenges of Implementing Evidence-centered Design in Large Scale Assessment

Kristen Huff, College Board

Linda Steinberg

Tom Matts, College Board

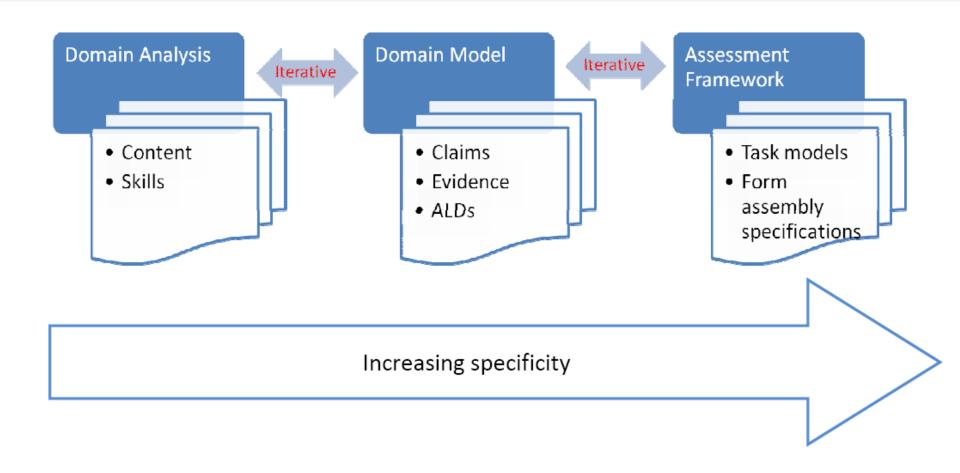
NCME 2009

San Diego

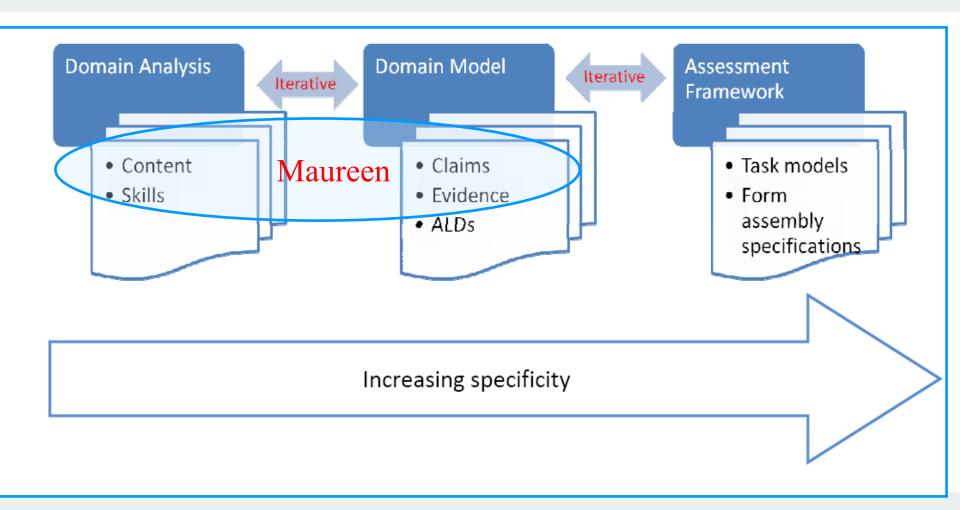
khuff@collegeboard.org



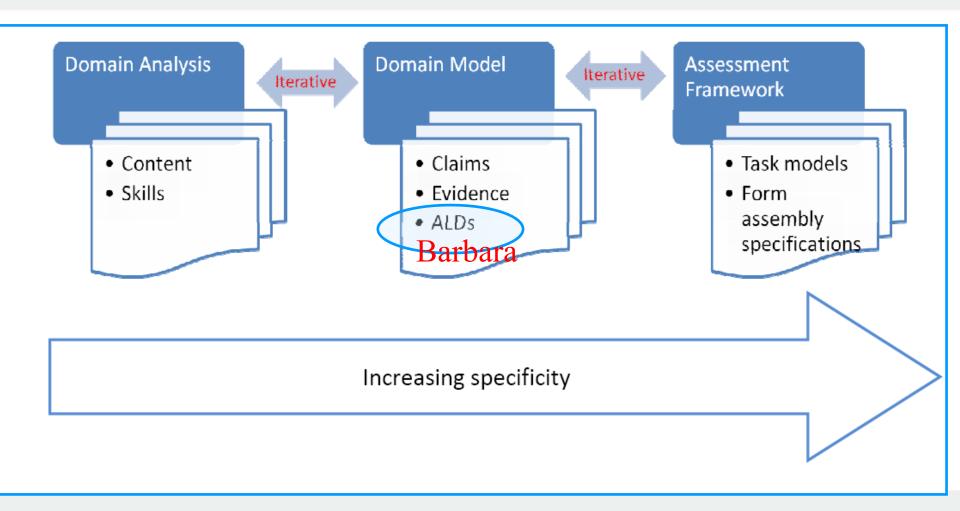




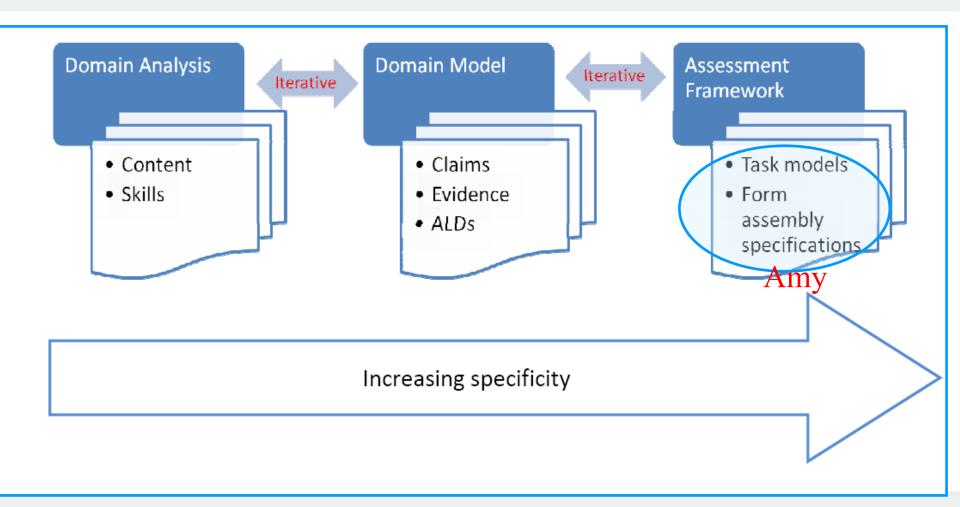














Why ECD for Advanced Placement?

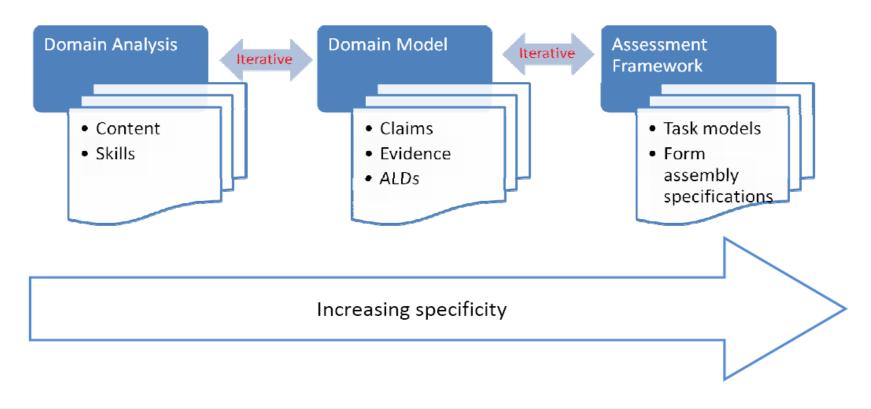
Two challenges

- (1) Incorporate contemporary notions of learning and assessment
- (2) Ensure comparability of test forms



ECD

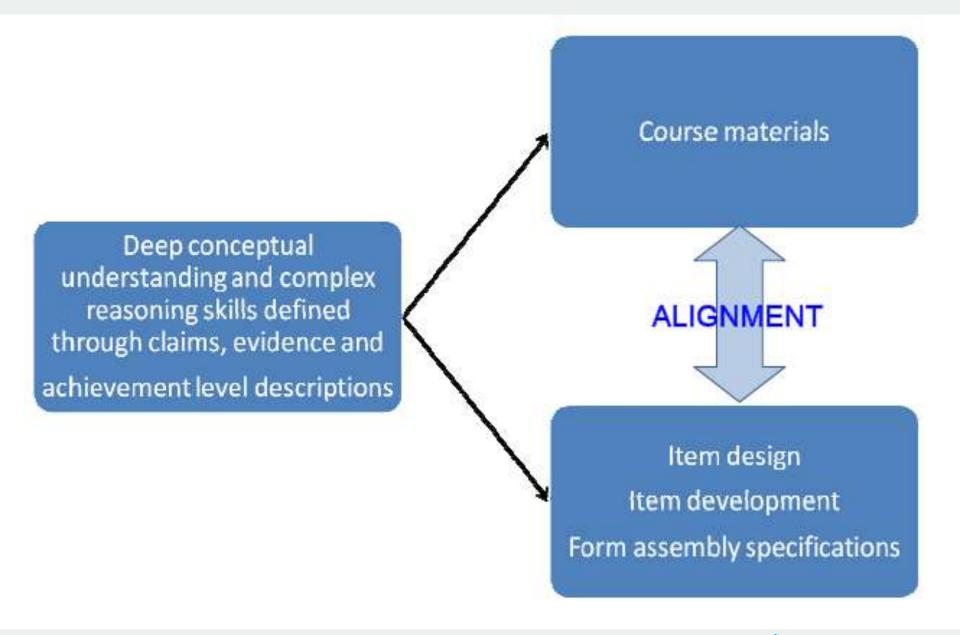
Evidentiary reasoning: Explicit and transparent





- (1) Alignment of course and exam
- (2) Explication of deep conceptual understanding and complex reasoning
- (3) Foundation for comparable scores
- (4) Structure for valid interpretation of scores

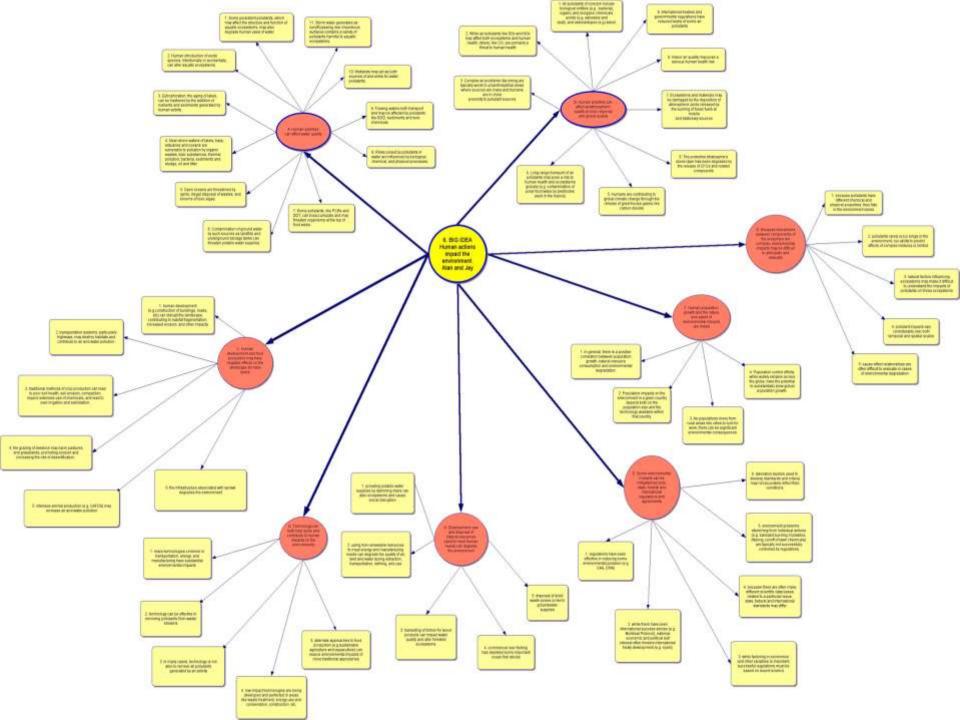






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Complex reasoning skills

- Organized, e.g., hierarchical
- Unambiguous language
 - Student knows....
 - Student understands...
 - Evaluate, analyze: synonyms
- Observable evidence



Observable evidence for reasoning skills

Claim: Student can analyze historical patterns...

Observable evidence of <u>analysis</u>:

Significant depth and quantity of historical information expressed as main concepts and subordinate details; disparate, relevant information brought together in persuasive argument; application of historical meaning in multiple contexts; clear, comprehensive and sophisticated thesis; recognition of relationships between various levels of abstraction juxtaposed together...



Observable evidence for reasoning skills

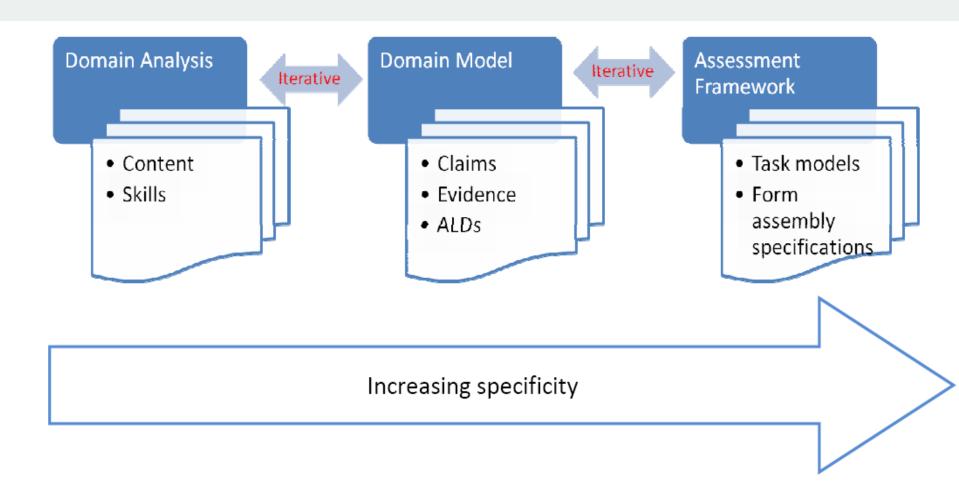
To design new kinds of situations for capturing the complexity of cognition and learning will require examining the assumptions and values that currently drive assessment design choices and breaking out of the current paradigm to explore alternative approaches to large-scale assessment - NRC, 2001



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ECD: What is it?





- (1) Alignment of course and exam
- (2) Explication of deep conceptual understanding and complex reasoning
- (3) Foundation for comparable scores
- (4) Structure for valid interpretation of scores
 - ECD's transparent evidentiary reasoning = Kane's (2006) interpretive argument



Challenges

- ECD requires resource investment up front
- ECD benefits are limited without proper infrastructure
- Terminology/jargon can be a barrier
- ECD requires fresh perspective on nature and role of evidence in assessment



khuff@collegeboard.org

