

Matrix based on the ideas of Lauren Resnick's research about cognition and learning

The Two Tiered System of Learning

Academy of the Elite	High literacy, higher auto-cognition (6 points), generated knowledge, interpreted mental work (bringing meaning and questioning ambiguity), reciprocal teaching (everyone learns from everyone)
Mass Schooling	Low skills, reading materials using common wording and words without nuances, chronologically narrative texts (no thinking about thinking)

SIX MAIN POINTS

Regarding Implications of Cognitive Science on Instruction

1. Thinking is constructed through interactions with people, things, experiences, etc.
2. Thinking, problem solving, and reasoning must be included in everyone's curriculum, not just the elite. All can become competent thinkers.
3. In reading, comprehension is constructive process which uses the written word combined with past experiences and predictions about what is plausible.
4. Successful math requires the construction of meaning through doing interpretive work instead of routine manipulation.
5. Meta-cognition (thinking about how we think) is essential to problem solving.
6. Social settings which facilitate interactions with other thinkers, provide feedback and qualitative participatory learn and problem solving are critical in the development of thinking and judgment.