

ENCOURAGING HABITS OF MIND IN STUDENTS

Mathematical HoM Working Group Subgroup B

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What is a Habit of Mind?

- Our starting point: Cuoco, Goldenberg, and Mark (1996)
- “Much more important than specific mathematical results are the habits of mind used by the people who create those results”
 - “methods by which mathematics is created, the techniques used by researchers”

Aspects of Habits of Mind?

- Justification and defense of results to others in the community
- Mathematical vs. non-mathematical HoM?
- Dependant on personal experience
 - Some aspect of enculturation
- Return to those HoM used by researchers in the creation of new mathematical results
 - How do these develop?

A Possible Research Question?

By what processes does a person develop the habits of mind useful to mathematicians?

-How does a person become enculturated into mathematical practices?

-How do young children develop early mathematical HoM?