Brainstorming: Ideas for Habits of Mind Sub-Working Group

- Is it adaptive or useful for students to think like mathematicians?
- Define what it means to think mathematically?
- HoM in using internet resources
- Ways of assessing HoM?
- Defining HoM
- What kind of theoretical framework?
- Impediments, obstacles
- What allows mathematicians to have HoM
- Progressive Stages towards HoM
- Is it culturally influenced?
- Is it epistemological?
- How teachers' HoM affect teaching?
- Can you teach it? How?
- Common understanding of MHoM
- Teacher-student transfer & Prof-teacher-student transfer
- Does it have an impact?

What are Habits of Mind?

- How is HoM different from metacognitive processes, PS strategies
- Is there any HoM beyond metacognition, beliefs, PS strategies?
- Curiosity! Mathematical dispositions
- Tacitly functioning HoM
- Mathematicians' (pure, applied, stat) views of HoM vs. Teachers HoM
- Changing view of math (technology)
- Engineers' view of math
- Sub-culture
- What's not a HoM?
- Meticulous
- Characterizing HoM thro' questions
- Do animals (primates) have HoM?
- Role of language in HoM

Subgroups

- A. Defining HoM, role of language,
- B. How to help students or teachers develop?
- C. Small HoM (behavioral schemas) in proving and in problem-solving (tacit HoM)
- D. Negative HoM