

Visible Actions

Actions that may be easily spotted by others or articulated by the mathematics facilitators as identified in the Collaborative Action Research

Planning

- establish a process to initiate the inquiry
- prepare for each step of the process throughout the inquiry
- set session agendas
- prepare/select activities that might help the group sharpen its focus

Listening

- be the ears of the group
- echo statements back to the group

Observing

- be a fresh pair of eyes for the group
- notice the unspoken and respond strategically

Coordinating

- oversee the technical details such as dates and room bookings
- be a time keeper

Tone Setting

- set group at ease with humour and/or positivity
- value, honour and challenge participants
- participate as an interested learner and risk taker
- be brave and share aha moments

Learning Together

- participate in the mathematics learning alongside the participants
- dig deeply into the mathematical content of the inquiry and learn from one another and from students

Collaborating

- provide opportunities to revisit and/or revise common goal
- invite participants to engage in the inquiry process

Being a Knowledgeable Other

- prepare and bring mathematics content, research-based materials and information to the group
- build own mathematics knowledge
- anticipate the mathematics content most relevant to participants
- recognize and highlight key mathematical thinking that moves the inquiry forward

Monitoring Dynamics

- foster positive group dynamics
- intervene when necessary

Visible Actions

Navigating

- narrow in and broaden out as needed
- refine key questions and points of inquiry
- move thinking forward, link mathematics concepts and synthesize ideas
- provide opportunities for reflection
- share responsibility for learning with the participants

Challenging

- create dissonance and engage in positive discourse
- challenge preconceived notions
- uncover misunderstandings about mathematics content and the learning and teaching of mathematics