

The following is the evolving collection of our networks' promising change ideas
for supporting students' mathematical agency

Student-Centered Lesson Structures & Routines

- Anticipatory Planning
- Boardwork
- Launch, Explore, Discuss framework
- Claim, Evidence, Question
- Connect, Extend, Challenge
- Agency Openers/Daily Discourse

Cultivating a Culture of Learning

MAIC Day 1 Count

- Introduction Letter
- Dear Math Letter
- Empathy Interviews
 - For Students
 - For Families

Mindset Interventions

- Growth Mindset & Hand Flexibility
- Mathematician's Lament
- Redefining Math Smarts

Status Interventions

- Assigning Competence

Discussion Worthy Tasks

- Making Math Tasks Discussion Worthy

Accounting for Accountability

- Safe Cold Calling



Mathematical Agency
Improvement Community

Abolishing the phrase "I'm not a math person."

- Monitoring Student Thinking

Collaboration & Group Work Structures

- Establishing Group Norms
- Rolling Out Group Roles
- Participation Quiz (focus on Class Norms or group roles)
- Accountability Quiz

Promoting Mathematical Discourse

- Why $2 > 4$
- Student Led Sharing Strategies
- Low Effort Strategies for Increasing Whole Class Participation
- Mathematical Questions and Comment Stems
- Double Huddle

The Skeptic Role

- Questioning Techniques: Ask “How” and “Why”
- Skeptizing the Skeptic

Summarizing Learning & Assessment For Growth

- Matome - Consolidation
- One on One Check-ins
- STAR System
- Portfolios of Student Work





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Resources for Communicating with Parents

- [Back to school night slides](#)
- [Parent email ideas](#) (in progress)
- [PA meeting agenda and slides](#)
- [Family Math Night slides - middle school](#) - English/Espanol
- Helpful articles:
 - [HTH Math vision](#) - from MAIC proposal
 - [NSF: 7 ways to help your kids with their math homework](#)
 - [Mathematician's Lament](#)
 - [Youcubed Parent Site](#) - Jo Boaler

