

Math Routines and Procedures: Supporting Mathematical Discourse

Introduced Week 1, Reinforced Weeks 2-3

Discourse Routines and Accountable Talk

- Discuss and practice **pair/share** routines ([peanut butter/jelly partners](#), elbow partners)
- **Assign pair partners** and review seating charts
- Discuss and practice **accountable talk** routines that help learners listen to the reasoning of others and decide what they think
 - Post Number Talk/Math [discussion hand signal](#) cards ([or these](#)) where learners can see them.



- Post a math [discourse process chart](#) or [active listening expectations](#) (3 choices) and [sentence starters](#)



- Discuss and practice **triad routines** like “[talking triangles](#)”, leave open ended for learner choice of partners, if learners follow behavior expectations
- Discuss and practice **whole group standing “huddle” routines** like “[heads up, huddle up](#)”
- Practice various grouping configurations throughout math lessons **every 10-15 minutes**.
 - Use them to **get kids moving** and **connecting with their own thinking**.
 - Use them to **emphasize ideas**.



Whole Group Discussion Procedures

- Discuss and practice *equity sticks* (call on non-volunteers most of the time)
 - Set the expectation that **everyone can think about math** and that's all we need to do: think our own thoughts and share them
 - Set the expectation that **if you need more time** to “think your own thoughts” about something, just **ask**. The facilitator will come back to you.
 - Focus on expectation that **everyone's statements are OK even if “wrong”**
 - Focus the class's attention on how **everyone's thinking will be considered and agreed with or disagreed with respectfully** and how EVERYONE will be both right and wrong throughout the year
 - Focus on how **learning happens when we think through an approach to a problem**, not just when someone tells us the “right” answer
 - *Discuss and practice how acceptance (not agreement) is shown*: chart it
 - **Follow up immediately and firmly** on any non-accepting behavior
 - Heavily **PRAISE** accepting behavior, especially when it's hard