

Talk Moves for Whole Class Discussions (in an Inquiry Classroom)

1. **Revoicing:** The facilitator repeats what the student has said: “So you are saying....”, “What I heard you say is...”
2. **Rephrasing:** The facilitator asks one student to rephrase what another student said. “Sara, can you repeat John’s argument in your own words?”, “Who can explain Kayla’s thinking in their own words or ask her a question?”
3. **Agree or Disagree:** The facilitator asks the class who agrees and who disagrees with the conjecture or argument of another student. “Who agree or disagrees and why?”
4. **Wait time:** Facilitator waits for students so they can keep thinking and formulate their thoughts or questions.
5. **Adding on:** Facilitator asks students to add on to the reasoning of another student. “Who would like to add on?”, “Marcus, can you add on to this?”

To find examples of this language in the college classroom, see videos at:
<https://www.artofmathematics.org/blogs/cvonrenesse/whole-class-discussions-incl-videos>

We learned about the five talk moves from:

- S. Chapin, C. O’Connor, and N. C. Anderson, *Classroom Discussions: Using Math Talk to Help Students Learn*, Math Solutions, 2009.

Discovering the Art of Mathematics

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Thanks to the National Science Foundation, all of our materials (curriculum and support) are freely available online: <http://www.artofmathematics.org>.

Discovering the Art of Mathematics (DAoM) provides a wealth of pedagogical resources for mathematics faculty to help transform their courses. Our online book “Discovering the Art of Teaching and Learning Mathematics using Inquiry” includes classroom videos of IBL in action, descriptions of teacher moves, sample student work, and reflections about our pedagogical toolkit.

<http://www.artofmathematics.org/classroom/>

For departments interested in IBL, DAoM offers traveling professional development workshops.

The DAoM curriculum consists of a library of 11 inquiry-based learning guides for mathematics for liberal arts (MLA) courses. Each volume is built around deep mathematical topics and provides materials which can be used as content for a semester-long, themed course.

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