Mathematics Coaching Program – Mathematics Teaching Institute

July 29, 2015

Daily Agenda: Day Three

Big Picture Goals:

- Transform 'traditional' textbook tasks into problem solving experiences.
- Ask higher-order questions in mathematics classrooms.
- Use manipulatives to build conceptual understanding of fractions.
- Bridge fraction concepts with corresponding symbolic notation (enactive, iconic, symbolic thinking).
- Identify learning progressions for fraction understanding in K 12 mathematics.

9:00 am	Tim and	From Textbooks to Tasks / Adapt-a-Task using VOUR
9.00 am	Amanda	curriculum
		Problem Posing Part I – Removing Constraints and Increasing Cognitive Demand
		Math Class Needs a Makeover – TED Talk by Dan Meyer
10:15 am		Morning Break
10:30 am	Tim and	Sticky Issues: "The hardest thing(s) to teach / learn
	Amanda	about fractions"
		Making Friends with Fractions – Manipulative Centers
		Station One: Pattern Blocks
		Station Two: Cuisenaire Rods
		Station Three: Fraction Circles & Squares
		 Station Four: GeoDoards Station Five: Tangrams
		 Station Five. Tangrams Station Six: Virtual Manipulatives
12:00 pm		Lunch
12:45 pm	Tim	Making Friends with Fractions – Part II
		"Connecting the Math Workshop to Fraction Concepts

		Using Manipulatives in Mathematics Classrooms
		Hanging Your Fractions Out to Dry" – A conceptual way to plant seeds of understanding of fractions
		Structuring a Mathematics Workshop
		Revisiting the Sticky Issues
		Daily Feedback Form
		Homework: "The Having of Wonderful Ideas" (Duckworth, 1972)
2:30 pm		Afternoon Break
2:45 pm	Patti, Azita, Tim, Lucia, Joan,	MCP Year Three Recognition
	Cheryl, Cathy, and GRAs	MCP Alumni Panel Discussion