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Case Selection and Combination Guide

Watching authentic video of mathematics teaching enlivens any professional development program and catalyzes deep conversations about pedagogy. Each video case, and accompanying facilitator guide, supports college mathematics instructors to think deeply about teaching. Combined with readings from related essays and other resources, new teachers build their knowledge of student thinking and advance their strategies for engaging students in learning.

Aware that department contexts vary, we present two outlines for possible uses of the materials. See references on the last page for full bibliographic information for cited sources.

SHORT COURSE – 6 meetings

Seminar format: TA professional development seminar of approximately 6 meetings (including both pre-term/early-term and additional meetings during the term).

Suggested use: 2 cases early in the term, 2 around mid-term, and 2 near end of term.

<i>Meeting</i>	<i>Timing</i>	<i>Pre-reading</i>	<i>Case</i>	<i>Follow-up activities</i>
1	pre-term	Math Autobiography and/or PCAST (2012)	First day	BCCS*: Changing Sections; Salad Days
2	pre-term	Group Work, Questions	Facilitating Group Work	BCCS: Study Habits; Pairing Up
3	before mid-term	Mid-term Evaluations	Evaluations	BCCS: Making the Grade; Seeking Points
4	after mid-term	Knowledge for Teaching	Grades & Grading	BCCS: There's Something About Ted
5	late in term	Constructivism	Inside the Group	BCCS: Quicksand of Problem 4; Studying the Test
6	last meeting	Journal of a Math TA	Communication Gap and/or Do They Really Get It?	BCCS: What Were They Thinking

*BCCS: Boston College Case Studies

FULL COURSE – 11 or more meetings.

Seminar Format: Weekly seminar on teaching.

Suggested use: readings and cases for at least 11 meetings across at least 4 months. For spacing across a year, use video cases every other week, alternating with the indicated follow-up activity.

<i>Meeting</i>	<i>Pre-reading</i>	<i>Case</i>	<i>Follow-up</i>
1 (pre-term)	MAB, PCAST (2012) executive summary	First day	BCCS: Changing Sections; Salad Days
2 (pre-term)	Group Work	Facilitating Group Work	BCCS: Pairing Up
3 (pre- or early term)	Questions	Choosing & Ordering Student Work	BCCS: Order Out of Chaos
4 (pre- or early term)	Knowledge for Teaching	Office Hour	BCCS: Study Habits
5	Mid-term Evaluations	Evaluations	BCCS: Making the Grade
6		Grades & Grading	BCCS: Emily's Test
7	Skemp (1978)	Grades - Extensions	BCCS: Seeking Points
8	Constructivism	Leading Whole Class Discussion	BCCS: Salad Days
9	Technology Essay and/or Bode et al. (2009)		Sinclair (2008)
10	Hsu et al. (2008)	Inside the Group	BCCS: Quicksand of Problem 4
11	Smith et al. (2009) and/or Nickerson & Bowers (2008)	Choosing & Ordering Student Work - Extension	MET2: Geometry exec summary
12	Monk (1994)	Communication Gap	Lobato (2008)
13	Nickerson & Bowers (2008)	Communication Gap – Grading Extension	BCCS: Studying the Test
14	MAB (again)	Do They Really Get It?	BCCS: What Were They Thinking
15	Journal of a Math TA		Kung & Speer (2009) and/or Meel (2009).

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