Learning About Teaching and Learning: Exploring New Faculty Development Models

Florence Ran, Community College Research Center Diana E. Cruz, Community College Research Center Laura Smoyer, Portland Community College Donny Winter, Delta College

CCRC COMMUNITY COLLEGE RESEARCH CENTER

TEACHERS COLLEGE, COLUMBIA UNIVERSITY









Engaging Adjunct Faculty in the Student Success Movement

Project Overview

Project Partnership

- Achieving the Dream funded learning initiative
- Supported by Helmsley Trust and Great Lakes
- Six leader colleges selected to receive \$160K over two years
- CCRC is serving as evaluator on the project

Scope of Work includes

Select two departments or divisions to pilot engagement activities. At least one department/division will be in STEM.

Create a cross-functional team to lead implementation. 25% of team members must be part-time faculty.

Receive technical assistance from ATD staff

Share strategies and lessons learned and serve as leaders for part-time faculty engagement in the ATD Network.

Develop plans for scaling and institutionalizing successful strategies beyond the two-year project period.

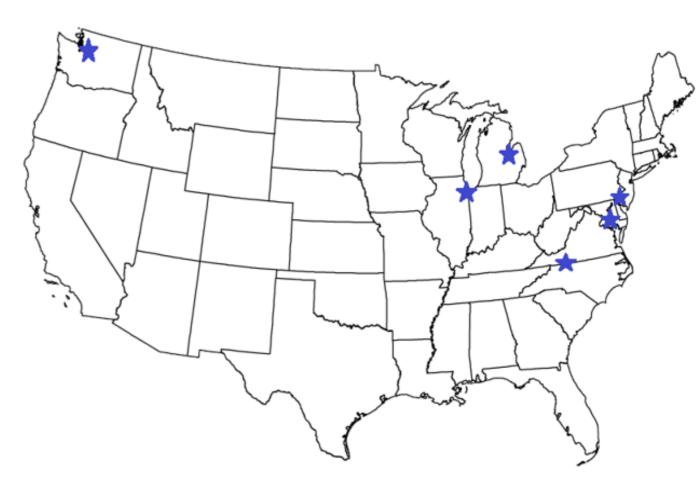


Community Colleges Count

Selected Colleges

Mix of:

- Urban, rural, suburban
- Union and non-union
- Small, medium, large
- Prior experience engaging part-time faculty
- Community College of Baltimore County
- Community College of Philadelphia
- Delta College
- Harper College
- Patrick Henry Community College
- Renton Technical College



Typology of Engagement Strategies

Туре	Example
Orientations and trainings	Patrick Henry is increasing part-time faculty participation in existing trainings on SAILS and cooperative learning
Online resources	Several colleges are enrolling part-time faculty in Blackboard shells that house policy information and teaching tips
Faculty inquiry groups	Harper College is running Communities of Practice comprised of full-time and part-time faculty
Mentoring	Renton is developing a mentoring program that will pair experienced and inexperienced faculty members
Instructional improvement initiatives	CCBC is scaling up High Impact Practices, and involving part-times in the planning, piloting, and scaling
Resources and space	CCP has created an part-time resource center within their Faculty Center for Teaching and Learning
Representation and recognition	CCP is hosting regular events to celebrate the achievements of part-time faculty

Project Timeline



- Colleges selected
- Colleges develop action plans
- CCRC
 faculty
 pre-survey
- CCRC collects · CCRC site baseline visits student transcript data
- CCRC site visits

- CCRC
 faculty
 post survey
- CCRC collects
 follow-up
 student
 transcript data

*Colleges implemented engagement strategies from spring 2017 to spring 2018

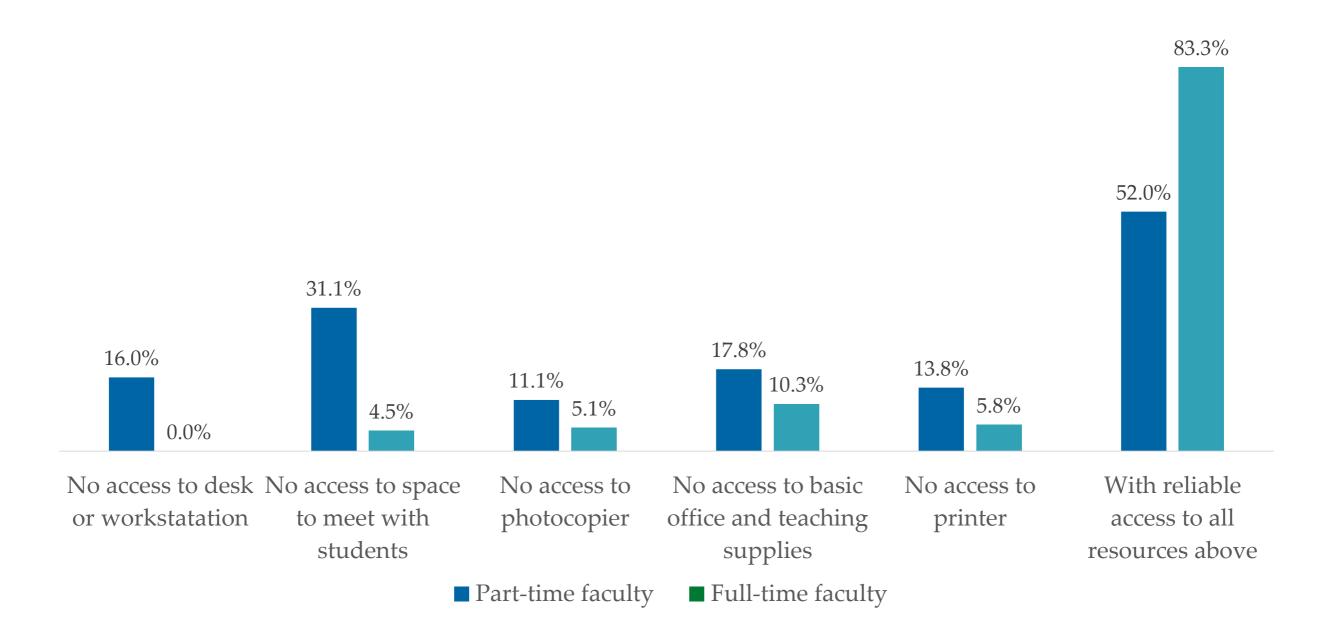


Professional Experience of Parttime Faculty

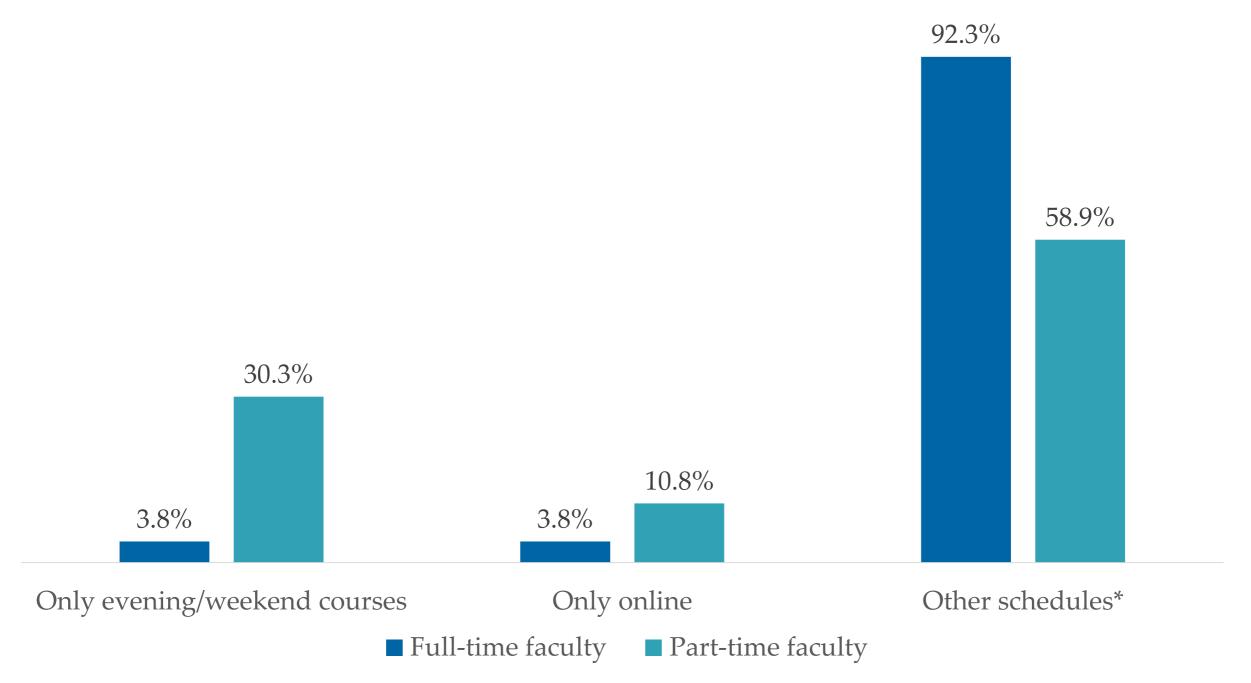
PT Faculty Have a Range of Employment Goals and Experiences

Fall 2016 Faculty Survey (N = 254)	
Consider teaching in higher education to be your primary career	64%
Currently only employed in this part-time position	34%
Currently have a full-time job elsewhere	19%
Retired from another job	21%
Hold teaching positions at more than one college or university	33%
Would apply for a full-time faculty position at this college	51%
Degree in education/teaching credential	50%
Years at college	9
Years teaching experience (any level)	18
Teach only sections meeting at after 5pm [2018 survey]	30%

PT Faculty Report Less Reliable Access to Resources on Campus



PT Faculty Are More Likely to Only Teach Evening/Weekend Courses



Other schedules include any schedule combinations that include courses meeting between 8 am - 5 pm.



Engaging Adjunct Faculty Project Activities

About One-Third Faculty Participated in Project Activities



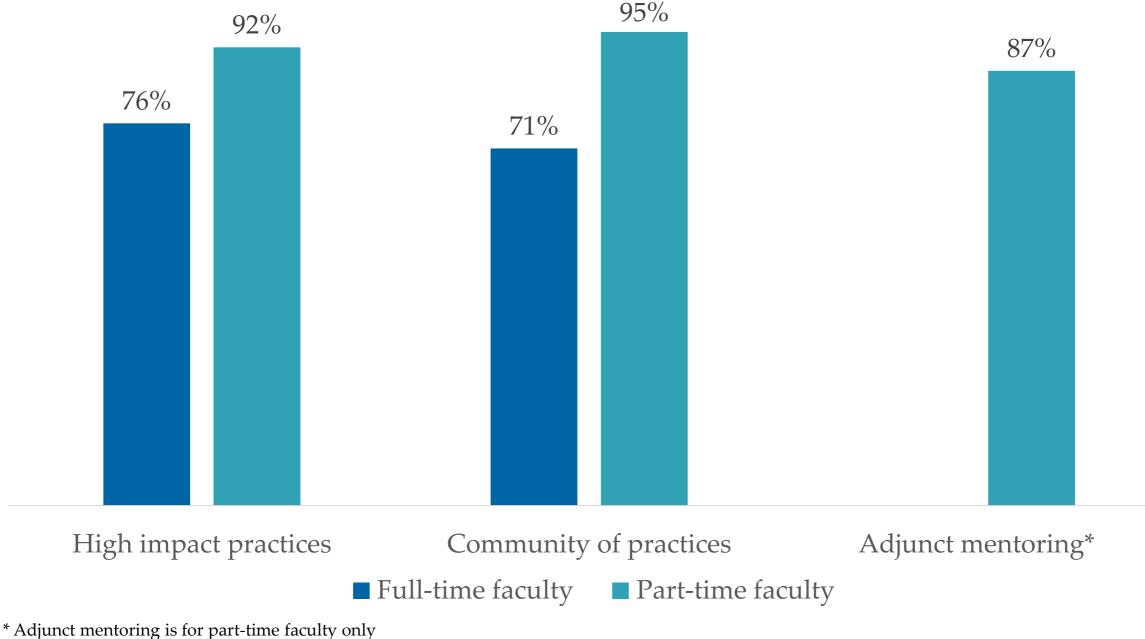


Full-time faculty

Part-time faculty

Project Satisfaction Levels Are High, especially for PT Faculty

% of faculty report moderate to extremely satisfied by the project activities they attended

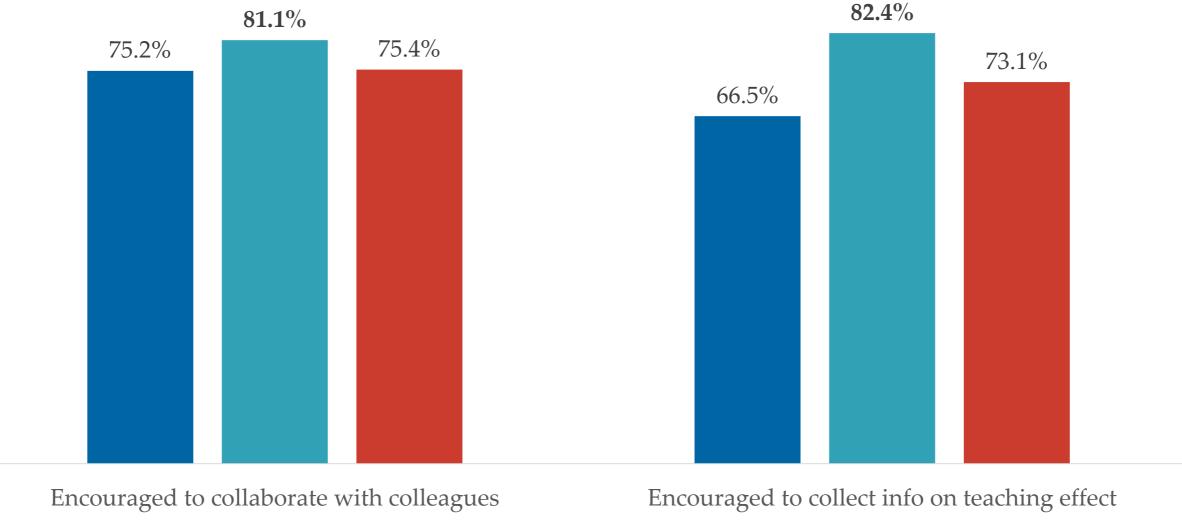


we report satisfaction rate for project activities with more than 10 participants

PT Faculty Participated in Project Activities Report Better Departmental Engagement

PT faculty who participated in the project activities report:

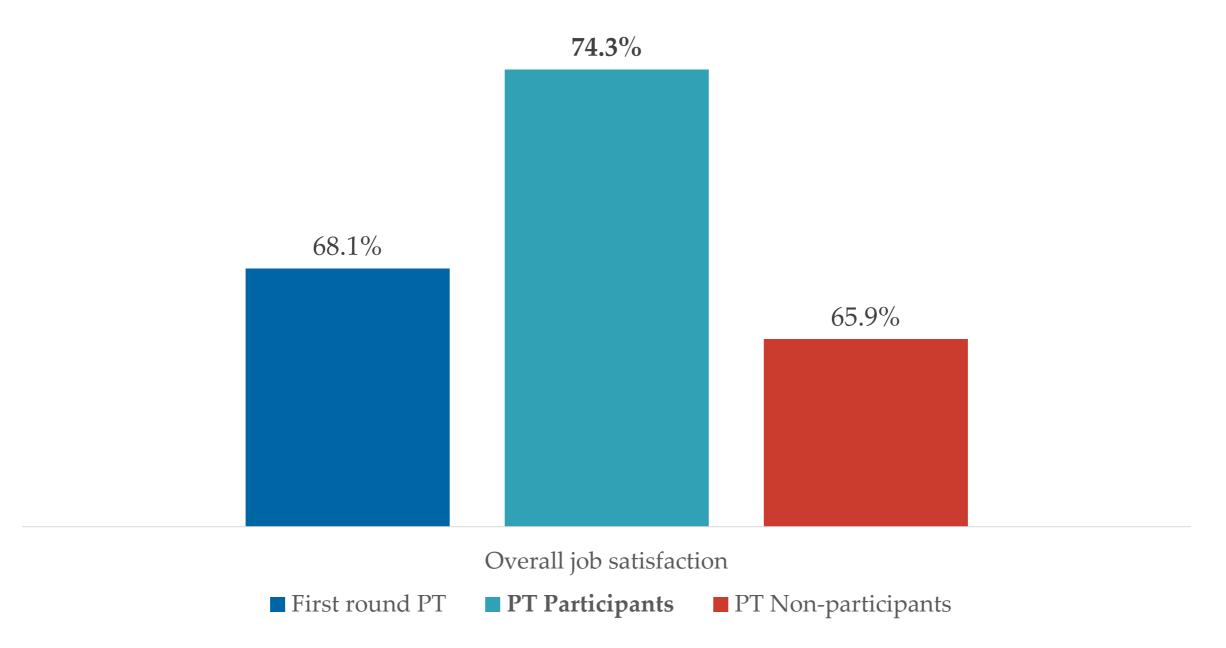
- significantly higher levels of collaboration with colleagues on improving teaching and learning
- significantly more likely to systematically collect information on teaching effectiveness.



■ First round PT ■ **PT Participants**

PT Non-participants

PT Faculty Participated in Project Activities Report Higher Job Satisfaction



The statistics reported in the graph are the proportion of part-time faculty reported moderate to extremely satisfied by the job.

The Goal: to Promote Solidarity

• A team of part and full time faculty at Delta College was formed to create a professional development cycle that not only created solidarity among faculty, but also provided students with a unique educational experience.



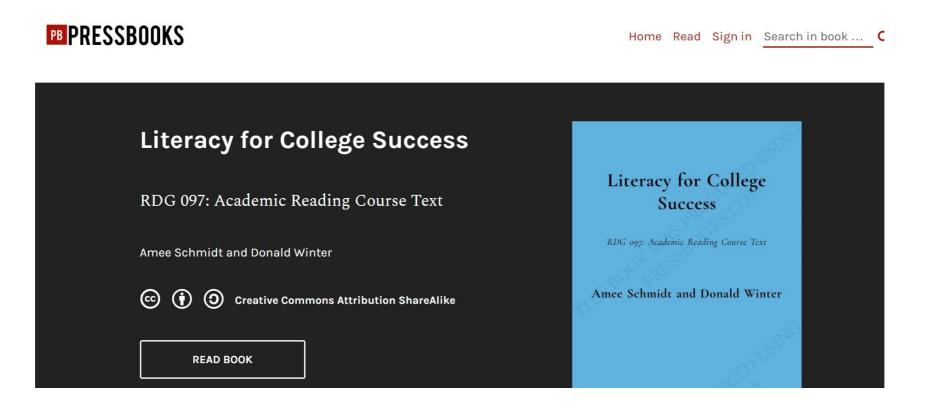
Step 1: Faculty Learning Communities

- Faculty members volunteered to lead faculty learning communities in different disciplines including: Humanities, Social Sciences, Math, and Trades.
- It began our process by bridging our pedagogical strategies through demonstrating collegiality.



Step 2: Cultivating Ownership

- The collaborative environment in the Faculty Learning Communities stimulated opportunities for cultivating ownership and acknowledgement of individually created classroom materials.
- Lead additional professional development opportunities outside of the grant for faculty to create Open Educational Resources (OER)



Step 3: Team Teaching Partnerships

- The final step allowed teachers to partner and co-teach classes. Our hope was to create an interactively unique educational experience for students. They had the benefit of exposure to two perspectives within different disciplines.
- Additionally, faculty were able to learn from their partner's teaching.

Looking Forward: Sustainability

- **Recruitment:** Through promoting this process to others, we are confident more faculty will participate when they realize it's a safe, accepting environment that promotes idea building, not assessment.
- **Cost:** Our primary concern centers in cost as we'll need continued investment from the institution's administrative body. Through recruitment, our goal is to demonstrate the marketability in this process as it provides students a cost effective, unique education, but also creates further opportunities for faculty.



Lesson Study

Adapting Lesson Study Project

- Can Lesson Study, a form of professional development that has shown promise in K12 settings, be adapted for use in the community college context?
- What are math faculty experiences with Lesson Study?
- Does the model show promise for improving teaching and student learning?

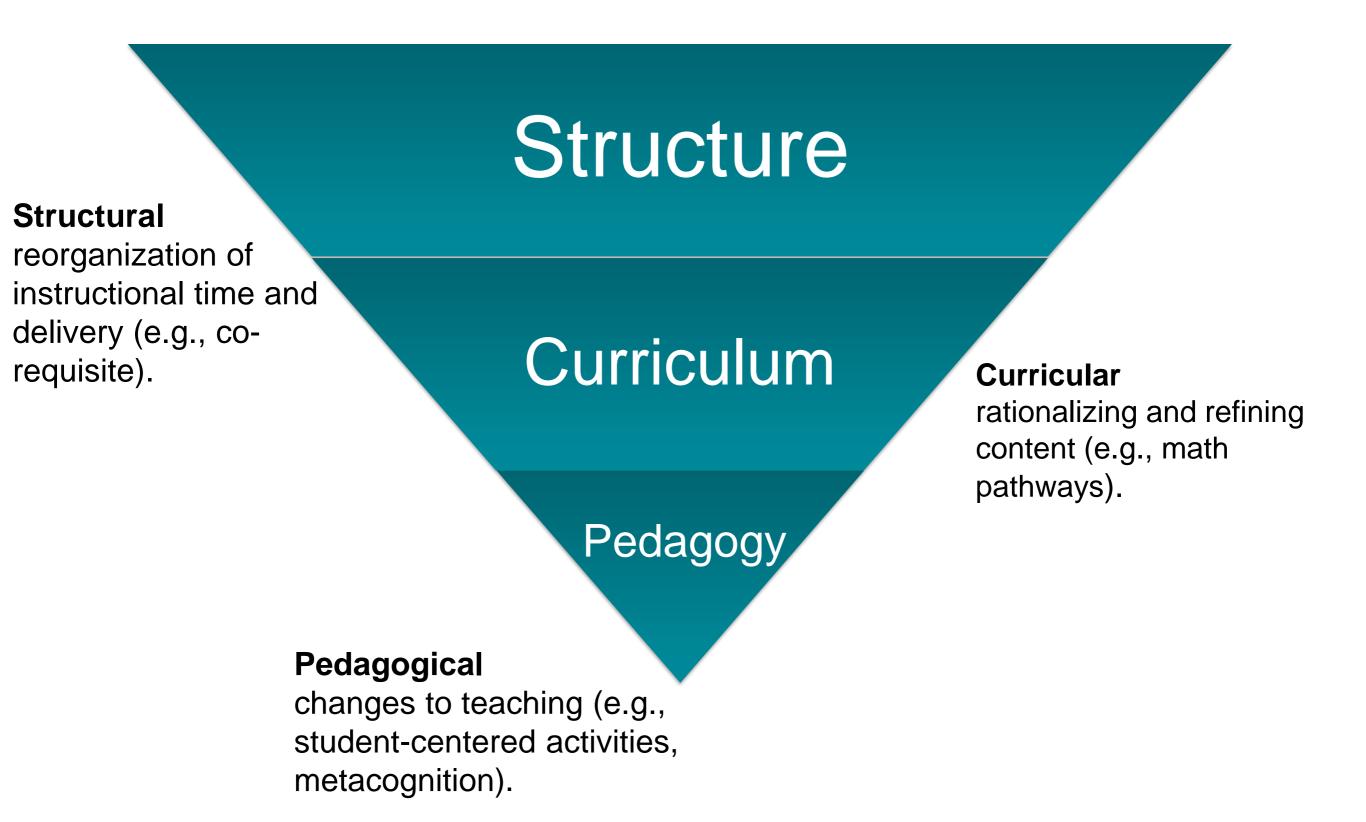
Project Activities

- Three community college teams participate in four cycles of Lesson Study with support from experts at Education Northwest
- CCRC researches feasibility and faculty experiences and collects formative data on student learning and outcomes

ICS INSTITUTE OF EDUCATION SCIENCES

This project is supported by the Institute of Education Sciences, U.S. Department of Education, through Grant R305A170454 to Teachers College, Columbia University. The opinions expressed are those of the authors and do not represent views of the Institute or the U.S. Department of Education.

Reforms to Developmental Education



Oregon's Math 98

"Math 98, Quantitative Literacy, is a rigorous mathematics course that is designed to be part of an alternate pathway from the traditional algebra track. Rigor implies that students display conceptual understanding and procedural fluency while working on authentic applications."

Five major course topics:

- 1. Applied Number Sense
- 2. Applied Algebraic Reasoning and Modeling
- 3. Graphical Sense
- 4. Measurement
- 5. Statistical Reasoning



1 Plan

The team develops a lesson by investigating curricula and examining research. The plan includes goals, learning outcomes, anticipated student responses, instructional strategies, and evaluation questions.

2 Teach and Observe

One team member teaches the lesson while others observe and collect evidence of student learning.

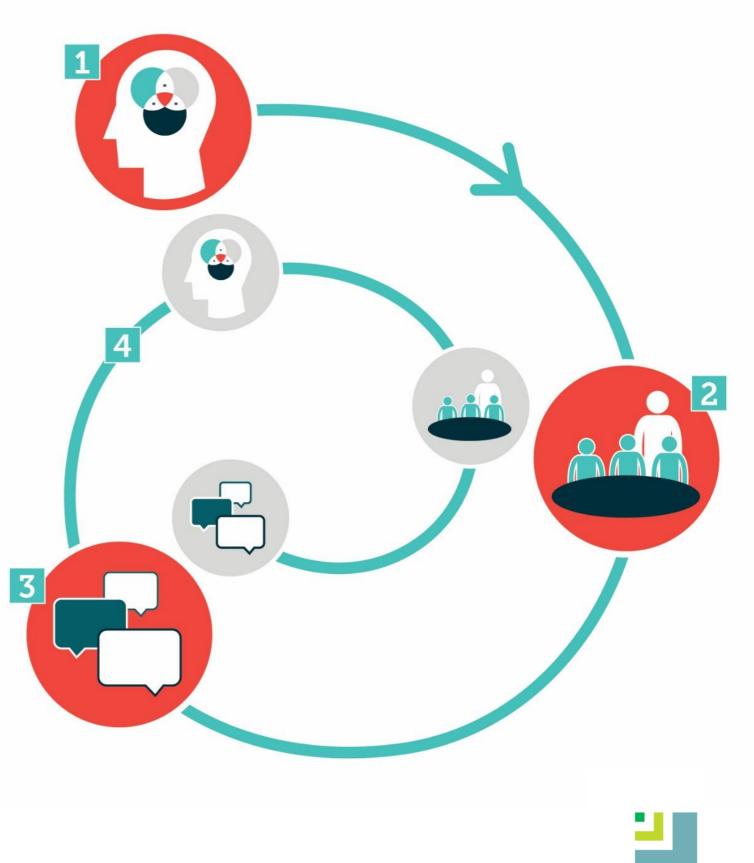
3 Debrief

The team shares observations, discusses evidence of student learning, and explores the effectiveness of the lesson.

4 Revise, Reteach, Reflect

Based on findings from the first teaching, the team revises and reteaches the lesson. The team reflects on the reteaching results and synthesizes lessons learned.

Lesson Study



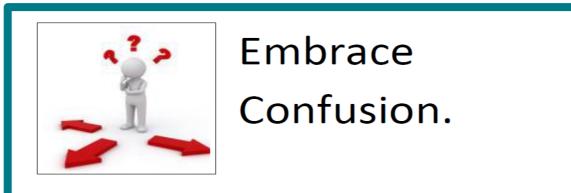
Plan



- What qualities do we hope to strengthen in our students as they move through the mathematics pathway?
- What topics are challenging for students to learn, difficult for faculty to teach? What key understandings do students need to develop about this topic?
- What lessons cover a concept critical to the topic? What sequence of experiences will help students develop the desired understanding?

PCC Lesson Study Research Theme

- How do we build students' confidence in their mathematical reasoning and willingness to persevere in problem solving?
 - Promote a productive disposition.
 - Support a growth mindset.
 - Embrace and learn from confusion.



"Confusion is the beginning of Wisdom."

-Socrates

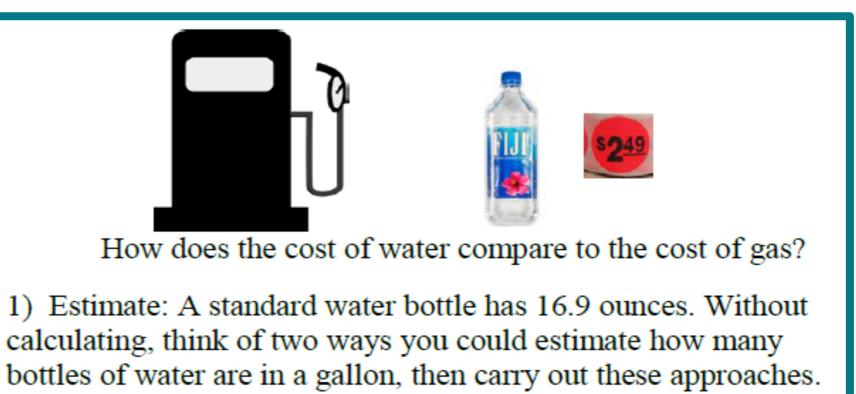
Topic:

Student goals for the topic:

- Interpret the meaning of their answer as it relates to the actual situation
- Estimate
- Unit cost (the cost that it takes to produce the product)
- Unit price (what you charge per item)

Student Challenges

- May have trouble converting between gallons and ounces
- May have trouble expressing as a rate (unit cost)
- May have trouble comparing the rates
- May have trouble estimating or be hesitant to try estimating

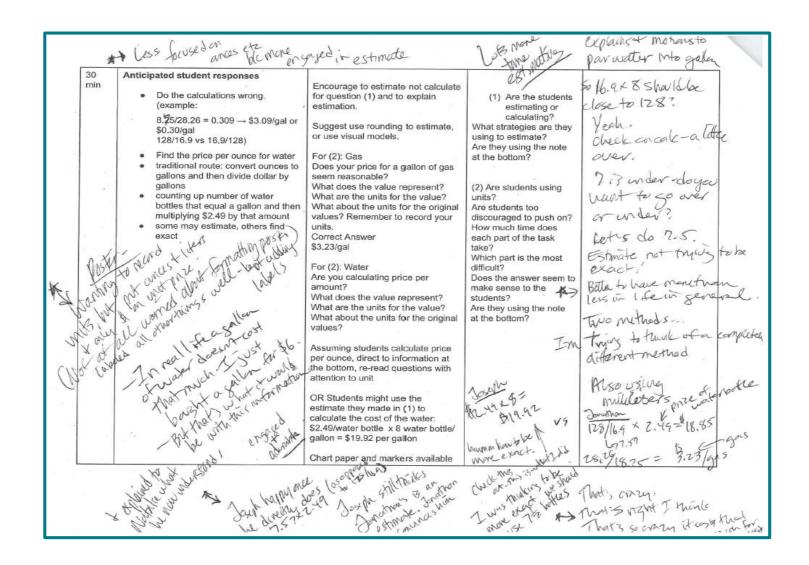


Explain which estimate you like better and why.

Teach and Observe



• What do the observation data reveal about student understanding and learning?





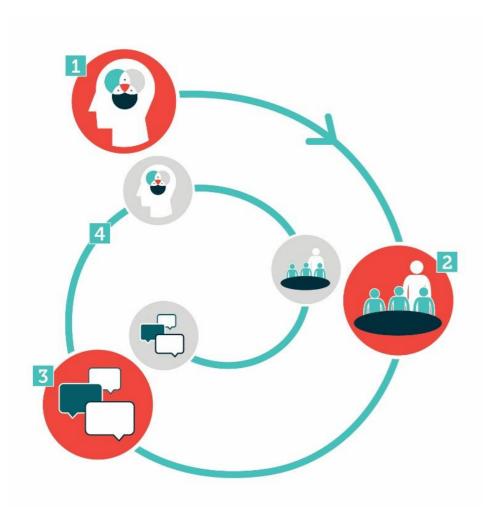
Debrief



 To what extent were the goals of the lesson achieved? What aspects of the lesson contributed to student learning?



Revise, Reteach, and Reflect



- How can the lesson be changed to help students more effectively reach the goals?
- Did the revised lesson bring about desired changes?
- What did we learn during this cycle that can be applied more broadly to our professional practice?



CCRC Underlying Principles of Lesson Study



DEVELOP AND SUSTAIN A COLLABORATIVE LESSON STUDY TEAM

- Establish purpose and long-team goals
- Articulate and attend to collaboration norms
- Maintain an inquiry focus on student learning



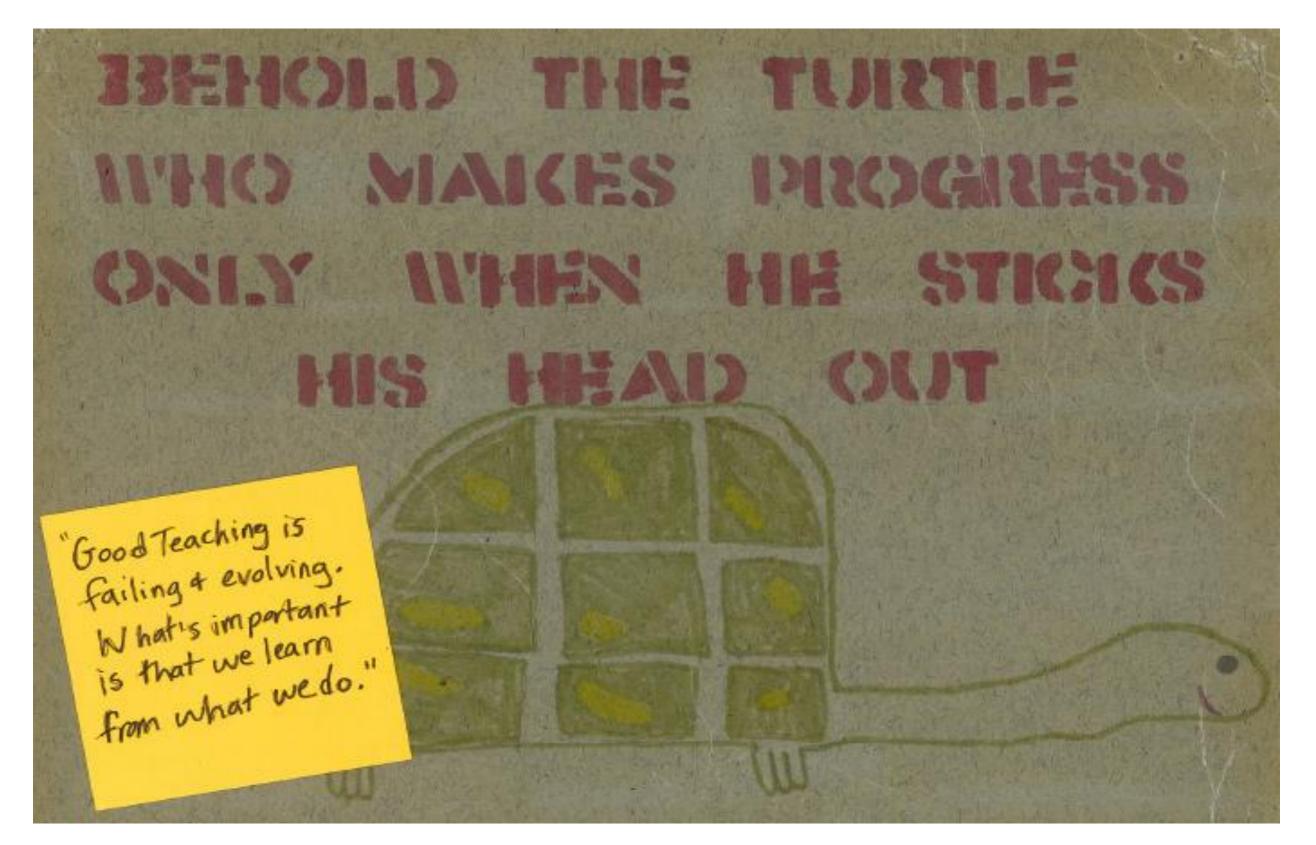
STUDY RESEARCH AND APPLY EVIDENCE-BASED PRACTICES

- Explore research literature on student development of mathematical understanding
- Investigate instructional approaches aligned with evidence-based practices



GENERATE AND SHARE PROFESSIONAL KNOWLEDGE

- Synthesize and document lessons learned
- Consider broader application for teaching practice
- Share knowledge with the field



Reimagining Developmental Education

How can we do better for our students?

SAVE THE DATE November 21–22, 2019 New York City, NY

Sign up for announcements at postsecondaryreadiness.org



CENTER FOR THE ANALYSIS OF POSTSECONDARY READINESS



TEACHERS COLLEGE, COLUMBIA UNIVERSITY

Thank you!

