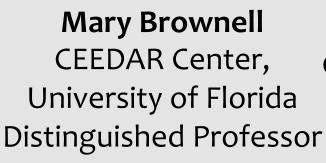


Brought to you by CEEDAR & TED







Melinda Leko
CEEDAR Center, University
of Florida Professor



Kate Doyle
Assistant Professor,
University of Cincinnati



Housekeeping

*Facilities

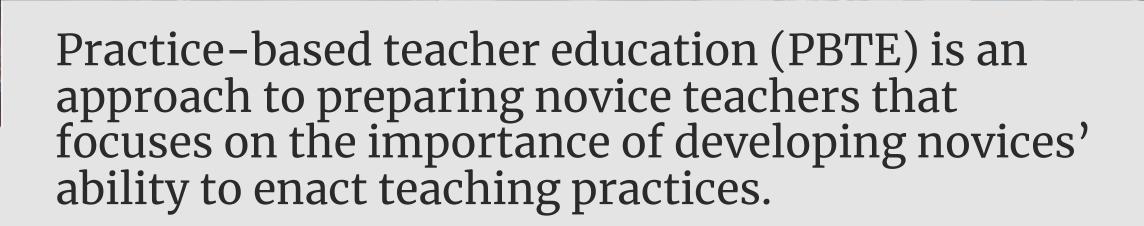
* Padlet: How to use it



Agenda

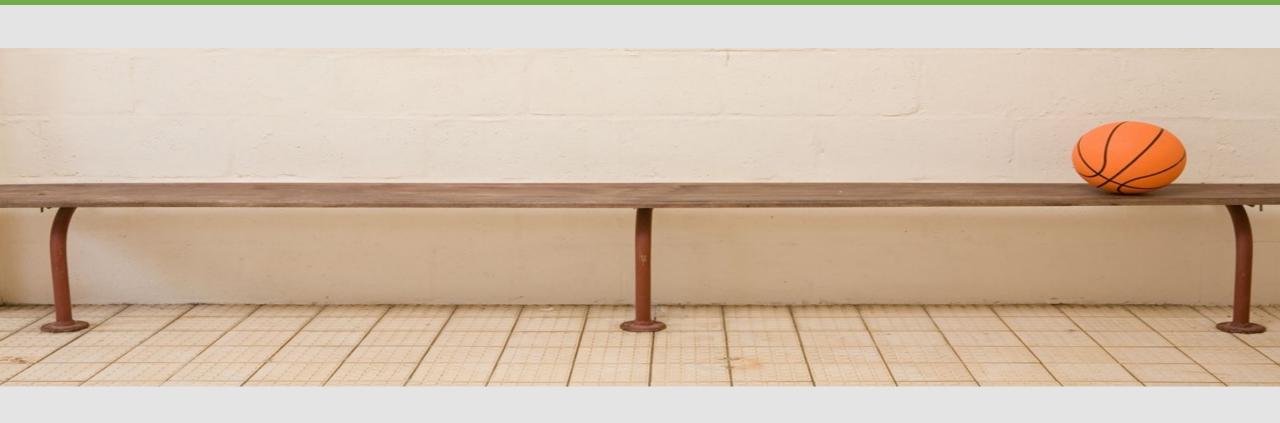
- 1. What is practice-based preparation and why is it important?
- 2. What are the features of effective practice?
- 3. Deep dive into two practice-based learning opportunities
- 4. Analyzing practice-based learning opportunities in your program
- 5. Next steps in your preparation program





Hauser & Kavanagh (2019)



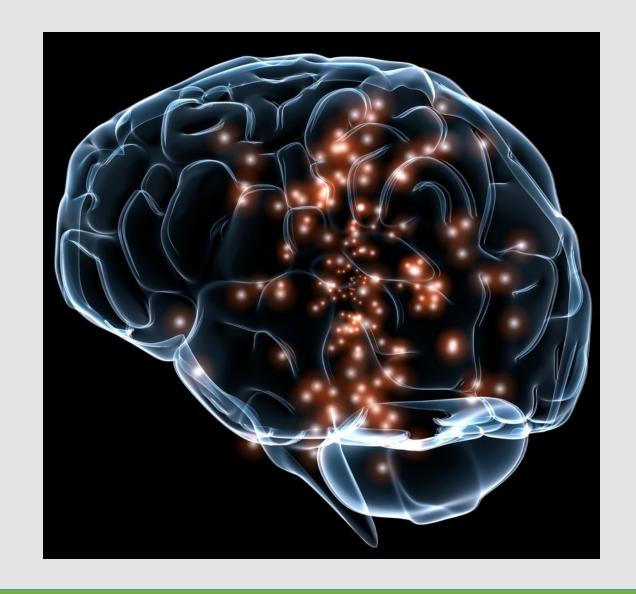


***Why is Practice So IMPORTANT to preparing teacher candidates?**



Why is practice important?

Allows for the development of fluent performance and situated knowledge



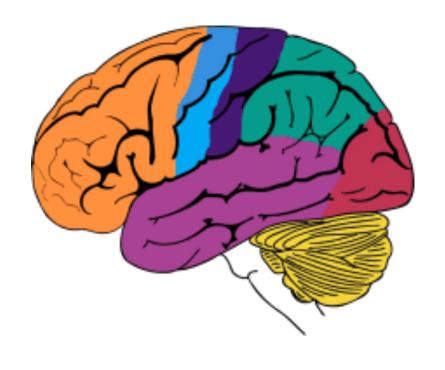


- The first time you learned to drive, play an instrument, implement a curriculum, etc.
- What was your performance like?
- What happened cognitively as your practiced?



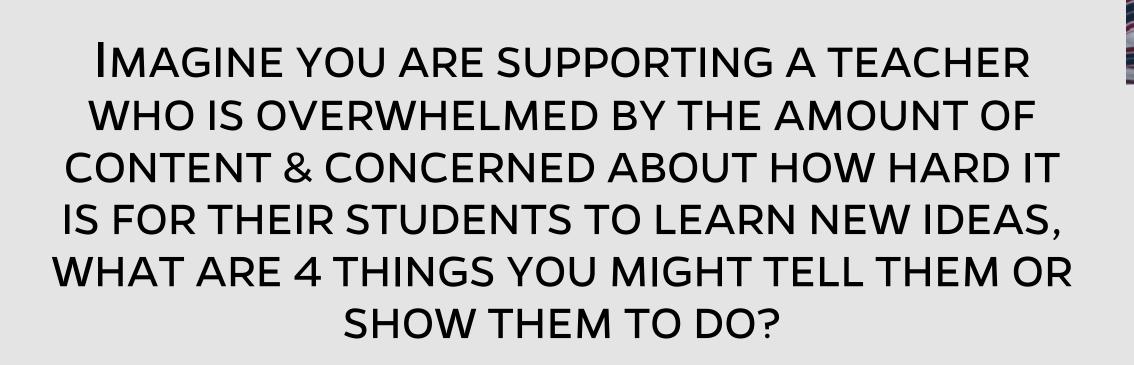
AIM OF PRACTICE

Reduce cognitive load



Increase reflection & problem-solving







Features of Effective



HIGH LEVERAGE PRACTICES: THE FOUNDATION



FEATURES OF EFFECTIVE PRACTICE-BASED LEARNING OPPORTUNITIES (PLOS)



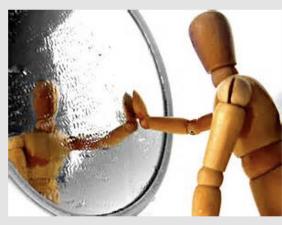
MODEL



Give FEEDBACK



ANALYZE



SELF-REFLECT



PRACTICE-BASED LEARNING OPPORTUNITY (PLO)

Is an opportunity to enact HLPs or other instructional

strategies according to the features of effective

practice







REFLECTION



Think about your current program, specifically your coursework. How are you helping candidates practice (using the features we discussed) specific instructional strategies (e.g., high leverage practices or evidence-based practices)? Discuss with your shoulder partner





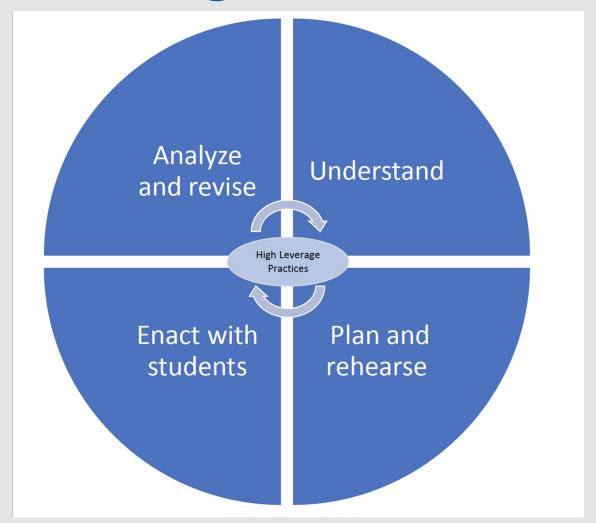
Practice-Based Learning Opportunities





MCDONALD'S Learning Cycle

Before entering the cycle, you have to develop knowledge of the HLP





EACH PLO

- * Prerequisite Knowledge
- **Planning (except for structured video analysis and performance feedback)
- *Implementation
- * Debriefing/Reflection

https://ceedar.education.ufl.edu/plos/



5 MINUTE STRETCH











MICROTEACHING: POLLING

I haven't heard of microteaching.



surveymonkey.com/r/TED_1

I'm using microteaching in my instruction.



I've heard of microteaching but would like to know more.





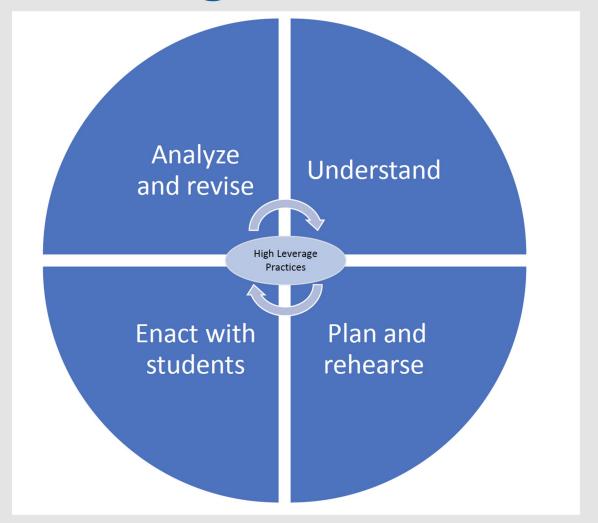
WHAT IS MICROTEACHING?

Microteaching is a system of controlled practices that make focusing on specific teaching behaviors and practicing teaching those behaviors under specific, bounded conditions possible (Benedict, Holdheide, Brownell, & Foley, 2016; Brownell, Benedict, Leko, Peyton, & Pua, 2019). In microteaching activities, teacher candidates take turns playing the role of teacher and P-12 students. They have opportunities to discuss and reflect on how they implemented a specific teaching behavior and the impact it had on their peers' learning. They also have opportunities to receive feedback on their performance from teacher educators.



MCDONALD'S Learning Cycle

Before entering the cycle, you have to develop knowledge of the HLP





EXPLICIT INSTRUCTION

Use a logical sequence

Provide clear models and explanation

Provide multiple opportunities to respond with feedback

Provide a range of examples and nonexamples



MICROTEACHING

- *The courses I teach:
 - Fall of Junior Year: Reading in the Content Areas
 - Spring of Junior Year: Language and Foundations of Literacy/ Instructional Strategies Moderate Intense (Co-taught)



Microteaching is a system of bounded practice that makes it possible to focus on specific teaching behaviors

Purpose: Training, Diagnostic Evaluation, Experiment with Innovation

Phase 1	Phase 2	Phase 3	Phase 4
PLANNING	TEACHING	REFLECTIVE COM- MENTARY	COLLABORATIVE ASSESSMENT
 Identify and prioritize long & short-term learning goals Develop the lesson plan Communication skills, self-directed learning Data collection, Recourses, EBP and HLPs Plan the technology Recruit peer support 	 10-20 minutes of instruction Selected content area Evidence-Based practice High-Leverage Practice 	 Individually, teacher completes analysis of the recorded teaching, asking: What was I doing and how were students responding? In a separate column, what connections can I make to principles of learning-research? 	 Who reached the goal, and who_struggled? What part was problematic? Misconceptions? What practical experiences will help? How to use what you learn about your students? Collaboration: Celebrate or concerns? Next Steps



PROMPTS FOR THE 2-MINUTE CLIP

- *Watch how the candidate engages the "student" in an online environment?
- Notice which component of explicit instruction is occurring during this 2m clip.
- Identify connections to various principles of learning, research, or theory.

JAMI'S VIDEO LINK

https://web.microsoftstream.com/video/db8db0a6-192f-4ad5-bb16-d1e969f38640



PHASES OF MICROTEACHING

- * Planning
 - Develop prerequisite knowledge & plan lesson
- *Implementation
 - Teach lesson
- *Reflective Commentary
 - Instructor helps candidate analyze lesson
- *Collaborative Reflection
 - Work through reflective prompts with peers



TREASURE HUNT (20 MINUTES)

- *At your tables. . . .
 - Go to the prerequisite phase of microteaching
 - Open each of the links, including the resources
 - Examine Resource A and identify how you might use/adapt the sample lesson plan
 - Open the links to the other phases and resources
 - Select a resource or two that looks interesting to you and explore it. (The videos of Kate and Steve are great!)
 - Be ready to share insights and questions



SHARE AN INSIGHT OR YOUR EXPERIENCE IMPLEMENTING MICROTEACHING/ASK A

QUESTION







TIME FOR A BREAK

* Please be back in 15 minutes



KATE'S THOUGHTS ABOUT IMPLEMENTING MICROTEACHING



SOCIAL VALIDITY DATA (SCALE 1-5)

	Microteach 1	Microteach 2	Microteach 3
Most pre-service teachers found micro teaching to be appropriate.	4.79	4.96	4.9
Micro teaching was appropriate to meet the course's needs and mission	4.85	4.79	4.9
Micro-teaching phase was effective in meeting the objectives of this course.	4.74	4.83	4.9

N = 30



"This was an excellent learning experience for me and I cannot wait to correct my mistakes for the next one."

"I think Micro teaching is a great way for students to be engaged in the lesson at hand as well as learn multiple techniques that can be kept on hand for when we begin working in our own classroom."

"I really enjoyed this and was surprised with myself at what I was able to achieve. I was super nervous before but was confident that I had a successful lesson in the end."



"I really liked having Kate in the collaborative assessment for mine because I feel like it made it go better. She asked more probing questions about the context than I think my peers would have. It makes it nice to have a teacher available in case there are any questions throughout the process."

"I am really excited to grow in my lesson planning and presentation. I look forward to trying again and building on the feedback and reflection from this microteaching."



PLEASE GO TO PADLET & PROVIDE YOUR RESPONSE

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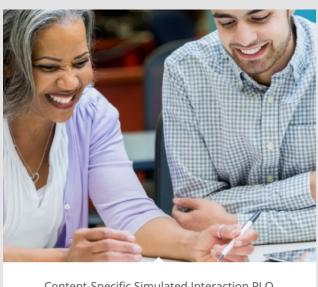






OTHER PLOS SIMILAR IN STRUCTURE

*Simulated interactions



Content-Specific Simulated Interaction PLO

1 Mursion



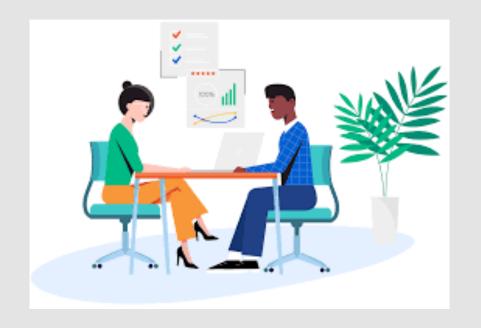
Using Simulation Environments for HLP #14

5 MINUTE STRETCH











TO WHAT DEGREE DO YOU HELP CANDIDATES LEARN TO PROVIDE PERFORMANCE FEEDBACK?



We have not thought about teaching candidates to provide feedback to each other



We have candidates reflect on instruction together, but we do not use a structured protocol



We use a structured observation protocol to help candidates learn to analyze instruction and provide specific feedback



surveymonkey.com/r/TED_2



PERFORMANCE FEEDBACK IS DEFINED AS A CRITIQUE OF OBSERVED BEHAVIOR THAT IS IMMEDIATE, SPECIFIC, POSITIVE, AND CORRECTIVE WHEN NEEDED, DESIGNED TO MOVE THE RECIPIENT TOWARD A DESIRED PERFORMANCE. (CORNELIUS & NAGRO, 2014, P.135)

PERFORMANCE FEEDBACK CAN BE USED TO IMPROVE AND MAINTAIN IMPLEMENTATION OF SPECIFIC INSTRUCTIONAL PRACTICES EVEN WHEN FEEDBACK IS WITHDRAWN (BROCK & CARTER, 2017; CORNELIUS & NAGRO, 2014; FALLON ET AL., 2015).



PERFORMANCE FEEDBACK PLO

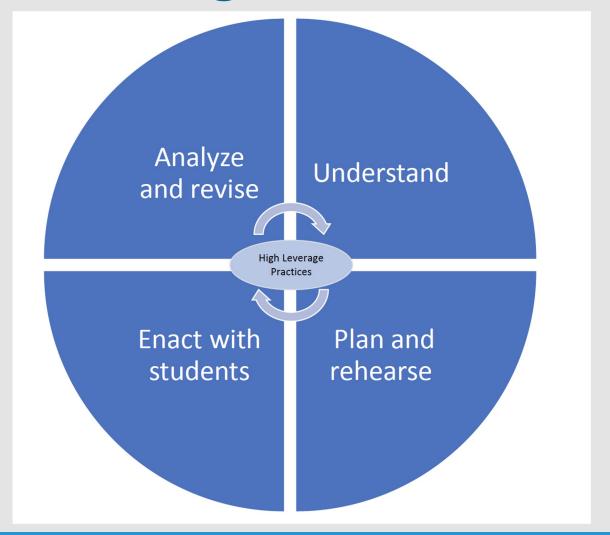
Designed to develop candidates' skill in providing peer performance feedback on:

- *Use student assessment data, analyze instructional practice, make necessary adjustments that improve student outcomes (HLP#6)
- [↑] Use explicit instruction (HLP#16)
- "Use strategies to promote active student engagement (HLP#18)
- *Provide positive and constructive feedback to guide students' learning and behavior (HLP#22).



MCDONALD'S Learning Cycle

Before entering the cycle, you have to develop knowledge of the HLP



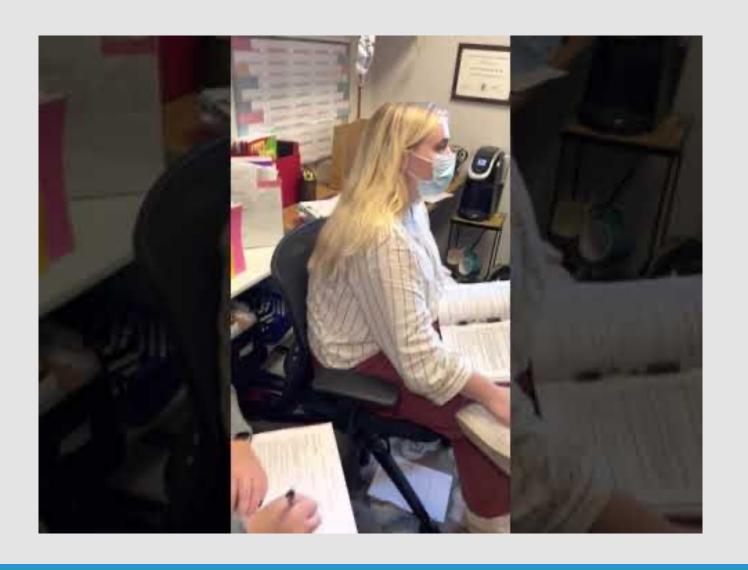


PROGRAM CONTEXT

- *Last semester of classroom work
- Math and Reading Methods course
- *Aligned with a targeted field placement
- *Students learn about feedback (giving and receiving)
- *Learn to use the protocol
- *Implement in Field Experience



*Clip of students engaging in microteaching activity to get ready for feedback activities – may not need for this presentation



CLASSROOM OBSERVATIONS OF STUDENT-TEACHER INTERACTIONS (COSTI)

Characterizing high-quality, explicit instructional interactions are three key components:

- * Clear and concise teacher demonstrations,
- * Frequent opportunities for students to practice what teachers demonstrate
- Timely academic feedback from teachers to students related to students' attempts to solve academic problems. (Doabler et al., 2014, p.305)



Student-teacher interactions



Quantity or Quality

- The frequency of student practice opportunities is pivotal in a number of academic areas, including early literacy (Smolkowski & Gunn, 2012), and early math development (Doabler et al. 2014).
- Y Whereas, the quality of interaction (checks for understanding and teacher feedback) lead to higher gains in conceptual and procedural understanding of math (Doabler et al., 2014)

Developing Prerequisite Knowledge: Phase 1

- *Review/reteach components of "effective instruction" addressed in observation tool
- * Model how to use the tool using videos of other faculty
- *Provide "guided practice" opportunity. Instructor and candidates together watch videos of Anita Archer deliver instruction https://explicitinstruction.org



Learning How to Provide Feedback: Phase 2

- *Readings followed by discussion about performance feedback, including examples and nonexamples
- *Model how to provide performance feedback through role play with candidates
- *Candidates practice giving feedback to each other using role play scenarios (e.g. making a sandwich)



Planning for Instruction: Phase 3

- *Partners work to develop lesson plans for their field experience
- *Partner A goes to the Field Experience and delivers the instruction Partner B observes
- *Partners select 1 Math and 1 Reading lesson as a focus lesson and send videos to instructor
- Partners switch roles after 5 weeks



Scoring & Providing Feedback: Phase 4

- * Partner B scores all weekly videos
- *Partner B provides A with feedback on the focus lesson while instructor observes and listens
- Instructor scores the video of the focus lesson using the protocol
- Instructor provides candidates with feedback. Performance feedback is the target
- *Partners reverse roles and the process repeats



Interventionist		Content Date of	Lesson (Observer	_				
Critical element Monitors the lesso	academic progress and co	a collection ollects data at least at one point in	B3. Delivers model/input Critical elements: Delivers a correct description/demonstration Was the description accurate? Yes No Was the demonstration accurate? Yes No						
0	1	2	0	1	2				
Data collection is not addressed or is not correct	Monitors academic progress and collects data at one point in the lesson Does not use data to make instructional decisions throughout the lesson	Monitors academic progress and collects data at multiple points in the lesson Accurately records errors made within the lesson Uses data to make instructional decisions throughout the lesson	Does not deliver correct and clear model	Delivers a correct and clear description/ demonstration	*All items in one and the items below. Delivers a correct and clear think-aloud, examples /non-examples, and demonstration of how to use supports Delivers model using multiple means of representation				
Critical Elemen	B6. Facilitates ungui	ded practice	Critical Elemen	B8. Promotes active en	gagement				
	ce is completed without tea	cher or peer assistance		provided sufficient opportunitie	s to respond (OTRs)				
0	1	2	0	1	2				
Does not deliver correct unguided practice	Provides clear and correct directions Unguided practice is completed without teacher or peer assistance	*All items in one and the items below. Sufficient number of items Allows for options for demonstrating learning Involves learners in monitoring and/or recording progress	Does not provide all learners with opportunities to respond	All learners are provided sufficient opportunities to respond (OTRs)	*All items in one and the items below. Sufficient variety of response strategies Consistently uses a lively pace to maximize instructional time Process-oriented prompting and questioning when needed				



Direct Observation Tool

Student Teacher Ir	nteracti	ons												
Teacher Demonstration/ Prompt														
Practice Opportunity (correct/error)														
Appropriate error correction procedure														
Provided follow up practice														
Provided affirmation or another error correction														

Start time	Stop	Time	



Kyena, I think it would be great to teach participants how to use the instrument, at least the interval part

*Great idea - Do you want me to find some videos to use as training to learn the Student / Teacher Interaction section of the tool



Treasure Hunt (20 minutes)

- *How could you use the HLP videos to implement Stage 2?
- *How could you use the information in this PLO to teach candidates to provide feedback to k-12 students?
- Identify two PLOs that could be combined with teaching candidates about performance feedback?
- *How could you use this PLO in your program to improve candidate's use of the identified HLPs or other HLPs?
- *Be ready to share



Lessons Learned in Teaching Candidates "Performance Feedback"

- Most difficult task in this PLO is getting candidates past the idea that <u>critical</u> performance feedback is not friendly.
 - Only providing praise and affirmation does not improve practice when there are obviously errors.
- *Best outcome: candidates look at PRACTICE more critically. Their view changes on "successful lesson"
 - They are now looking at:
 - HLPs as a vital component of teaching and not just finishing the lesson plan
 - Monitoring student responses in relation to the objective is important



This really was truly a culminating experience; using skills we learned in class, collaborating with a peer, and then reflecting on and discussing our decisions.

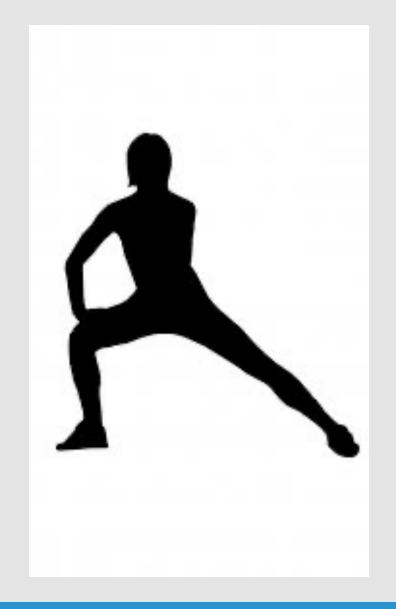
~ Peter

Candidate Take-Aways

Project TEAM was the most beneficial, interactive, and productive experience I've had in my undergrad career.

~ Lexie

5 Minute Stretch





PLOs not addressed today

- Microteaching, simulated interactions and mixed reality simulations are similar in structure
- *Structured video analysis
- *Lesson study



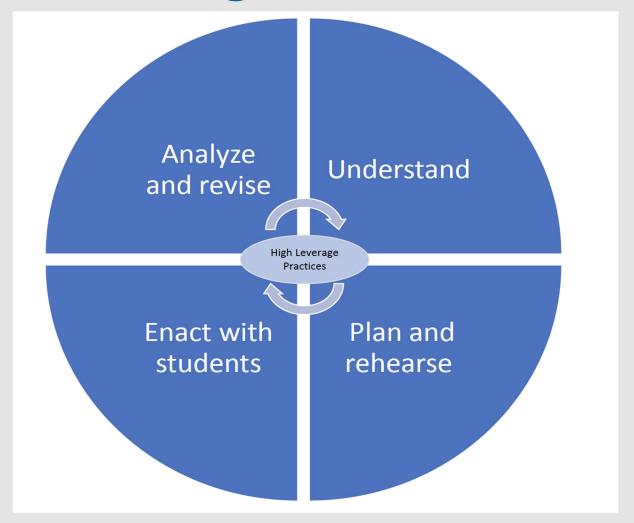
Structured Video Analysis

Involves candidates either observing a video of their instruction or that of another candidate or practicing teacher. The purpose of this PLO is to analyze and reflect on instruction for the purpose of improving implementation of a specific practice and assessing its influence on student learning.



MCDONALD'S Learning Cycle

Before entering the cycle, you have to develop knowledge of the HLP





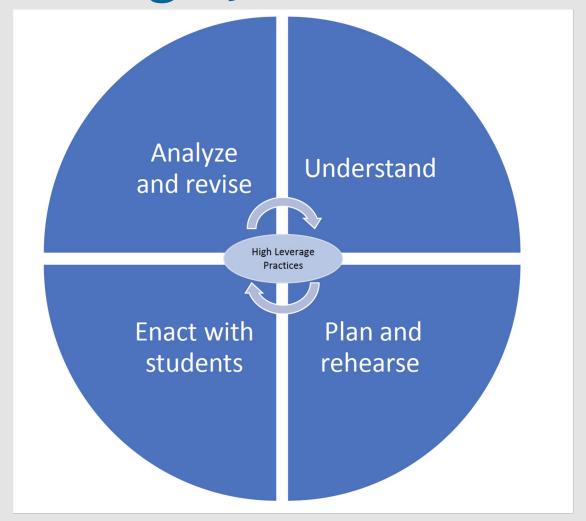
Lesson Study

*A collaborative practice-based approach to learning that can be used to improve teachers' and teacher candidates' thoughtful implementation of high leverage practices (HLPs). LS engages preservice teachers and/or practicing teachers in a "cyclical process of collaborative planning, enactment and observation of instruction, and reflection within small peer groups" (Roberts et al., 2017, p. 238). Strong focus on how students are learning.



MCDONALD'S Learning Cycle

Before entering the cycle, you have to develop knowledge of the HLP





is a very complex and information packed PLO

Take a look at Part 1 & 2 at https://ceedar.education.ufl.edu/plos/



Scaffolded Sequence of PLOs

- Toevelop understanding of an HLP by watching video models and using structured video analysis
- *Plan, rehearse, enact, and analyze/reflect using microteaching, mixed reality simulations, and/or simulated interactions (combine with performance feedback/structured video analysis)
- *Lesson study (combine with performance feedback/structured video analysis)



Analyzing preparation programs

- ¶Go to ceedar.org
- *Go to Resources and Tools top right of screen
- **Y** Go to Educator Preparation Resources
- *Click on Reports and Briefs
- *Click on Learning to Teach
- *Download MS version of the Rubric



Quality Indicators

		Low Quality	Medium Quality	High Quality
	ent are practice-based approaches, as defined atures outlined in this table, reflected across the reparation experience?	There is no evidence that the approach is integrated within and across coursework and field experiences. Further examination of course syllabi may be warranted.	There is some evidence that the approach is integrated within and across coursework and field experiences. Further examination of course syllabi may be warranted.	There is strong evidence that the approach is fully integrated across coursework and field experiences. Further examination of course syllabi may not be warranted.
Approach	Questions to Consider			
Pocus Description: Critical knowledge and skills essential to effective teaching are targeted across practice-based opportunities, coursework, and field experiences.	 Have the teacher education faculty identified critical content and pedagogical practices as reflected in teacher standards, and have they reached a consensus on common expectations of instructional practice? Are there demonstrated through-lines in instructional expectations across coursework and field experiences that are scaffolded to build upon content knowledge and skill level? Are the expectations of practice grounded in evidence, and do they reflect practices for a broad range of students (e.g., typically developing learners, students with disabilities, English learners)? Do the identified content and pedagogical practices support candidate capacity to operate effectively within a Multi-Tiered Systems of Support (MTSS) framework? 			



Page 7

Quality Indicators (continued)								
		Low Quality	Medium Quality	High Quality				
	ent are practice-based approaches, as defined atures outlined in this table, reflected across the reparation experience?	There is no evidence that the approach is integrated within and across coursework and field experiences. Further examination of course syllabi may be warranted.	There is some evidence that the approach is integrated within and across coursework and field experiences. Further examination of course syllabi may be warranted.	There is strong evidence that the approach is fully integrated across coursework and field experiences. Further examination of course syllabi may not be warranted.				
Approach	Questions to Consider							
Duration Description: Candidates are offered sufficient opportunities to deepen their knowledge and to hone their practice across the program.	 Has sufficient time been built into each course to offer candidates the opportunities they need to apply what they have learned? Has sufficient time been built into the program—including in coursework and field experiences—to offer candidates the opportunities they need to apply what they have learned? 							
Coherence Description: High- quality and highly structured, practice- based opportunities are coordinated across the program.	 To what extent are opportunities to practice aligned with and coordinated across the breadth of the program, thus maintaining the through-line of expectations in content and pedagogical knowledge? To what extent does the program's expectations of practice (content and pedagogical knowledge) align to local district needs and to expectations of practice in field-based settings (e.g., aligned observation 							

rubrics, training for cooperating teachers)?



Page 8

Let's work through Kate's example

- *Assume that the microteaching PLO is the only opportunity provided before students participate in their internship
- *Assume that candidates are expected to apply explicit instruction in internship and university supervisors provide feedback regarding their attempts using a structured protocol
- *Discuss at your table how you would score Focus, Duration, and Coherence



Page 10

Modeling (M)	Demonstration of how to design, enact, and evaluate instruction is provided to candidates through multiples means (e.g., faculty or peer demonstration, videos).	 To what extent do teacher educators model effective strategies and routines for teacher candidates? What opportunities are candidates provided to observe and analyze expert teachers participating in curriculum planning, teaching, collaborative data analysis, and analysis of instruction?
Spaced Learning (SP)	Candidates are provided sustained and repeated opportunities to practice knowledge and skills acquired in coursework. Opportunities are scaffolded to deepen knowledge and skills over time.	 To what extent are practice-based opportunities provided immediately after knowledge and skills have been acquired? To what extent does the program offer multiple, practice-based opportunities to practice skills? How well are these practice-based opportunities scaffolded to deepen expertise over time?
Varied Learning Opportunities (V)	Candidates are provided practice-based opportunities in which they are expected to employ strategies in varying contexts, with a diverse range of students, and under different leadership support.	To what extent are candidates offered practice-based opportunities that vary in context (e.g. service delivery models, school demographics), student populations, and under different leadership support?
Coaching and Feedback (C)	Practice-based opportunities integrate explicit coaching and feedback for candidates regarding their practice and provide them with the means for improvement.	 Have coaching and feedback been established as an expectation within practice-based opportunities across coursework and field experiences? Has training been provided for personnel who are expected to provide coaching and feedback? Have processes been established (e.g., feedback guidance and protocols) for use within practice-based opportunities? Do candidates gain practice in providing coaching and feedback within coursework and field experiences?
Analyzing and Reflecting (A)	Practice-based opportunities establish expectations and processes for candidates to analyze and reflect upon their practice, their impact on student learning, and any necessary modifications.	 Is there a structure in place for engaging candidates in analysis and reflection and for adapting and modifying practice accordingly? Are candidates provided opportunities to collaboratively analyze student learning data and to use these findings to revise processes, curriculum, and instruction? Is there a structure in place to prompt and target candidate reflection on specific elements of evidence-based or high-leverage instructional practices?
Scaffolding (S)	Candidates are provided with guidance and supports for improving practice, both of which are incrementally removed to promote independence and foster the development of expertise over time.	 Are candidates provided with more supports in the initial stages of their program, and are supports gradually removed as candidates progress and expertise is cultivated? Is the program designed to gradually increase candidates' exposure to complex content, context, and student populations?



ar.org

Integration Level Essential Features There is no This course/ This course/ This course/ evidence of field experience field experience field experience includes includes practice-based includes opportunities practice-based practice-based practice-based within this opportunities opportunities opportunities course/field that include that include that fully Coaching Analysis Spaced 1-2 essential 3-4 essential integrate 5-6 experience. of the essential features. features. **Course/Field Experience** features. Classroom & Behavior Management 101: Virtual Classroom Experience





Back to Kate's example of Microteaching

- *At your table, use the rubric to analyze the PLO provided by Kate
- *Be ready to share



Your Turn (15 minutes)

- *Analyze your program using the rubric
- If you do not teach in a program yet, join with someone who is and discuss their program
- *Be ready to share the insights you gained



Next Steps: At your table discuss

- *What ideas would you like to implement when you return?
- *What three actions will you take to improve use of PLOs in your programs?
- *What supports will you need?
- *How will you secure those supports?
- *Jot your ideas down in the padlet and we will discuss

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Disclaimer



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