

# Exploring Relationships between Standards-based Training, Instructional Practices, and Learner Outcomes

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The Virginia Adult Learning Resource Center

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# Agenda

- Study synopsis & context
- Research questions
- Methodology & data
- Data analysis
- Discussion & implications

# College and Career Readiness Standards for Adult Education

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2013



## Study Synopsis

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**Process:** We are exploring a methodology to examine relationships between PD, instructional practices, and learner achievement.

In our exploration of the relationships between CCRS trainings, instructional practice, and learner achievement, preliminary findings show that, for the year analyzed,

- the teacher group who participated in CCRS PD had higher MSG rates and higher EFL gains than the overall teacher population; and
- teachers who participated in more of our CCRS PD (3 and more) utilized a wider variety of instructional practices than teachers who participated in fewer trainings (1 or 2).

# Background: Rationale for the Study



## The context

- Low MSG rates for the 2018-2019 year
- Increased focus on standards-based instruction, including large-scale CCRS PD offerings
- Limited data on (and limited capacity to explore) how CCRS trainings relate to instructional practices

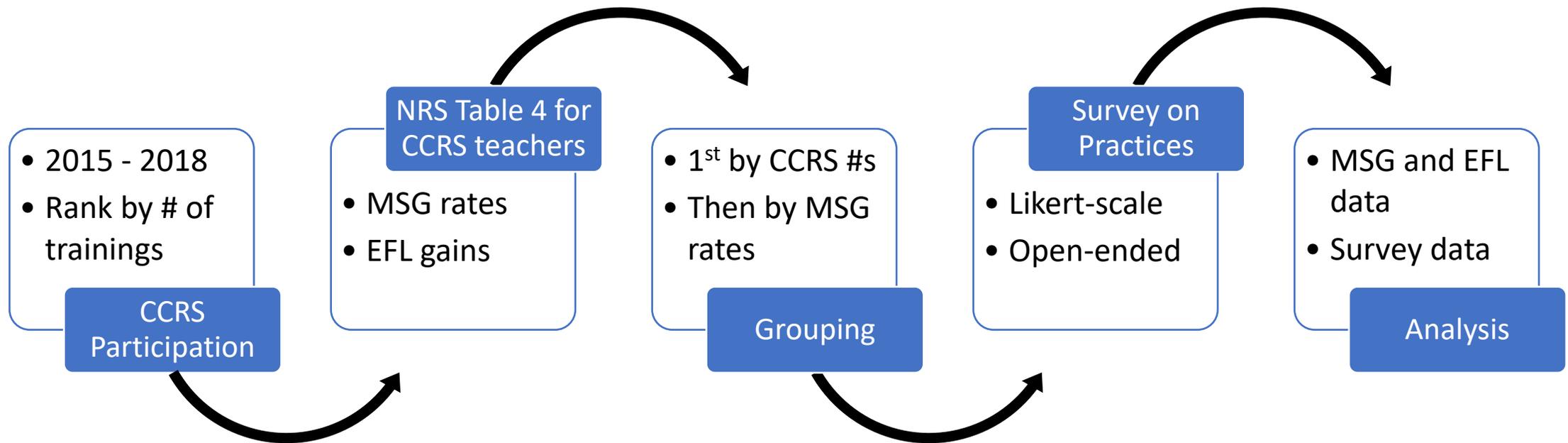
## Leading questions

- Does our PD impact instructional practice?
- What does instruction look like in classrooms with teachers who participate in PD?
- How does instructional practice relate to learner outcomes?
- How does PD participation relate to learner outcomes?

# Research Questions

1. How do measurable skill gain (MSG) rates and educational functioning level (EFL) gains differ for teachers who participate in college and career readiness standards (CCRS) trainings?
2. What does CCRS implementation look like at varying levels of PD participation and MSG rates?

# Study Design: Mixed Methods



# Data



Learning management system data	NRS data	Survey data	Member checks on findings
CCRS trainings (2015-2018)	Table 4 for CCRS participant teachers in 2018-2019	Likert-scale items based on CCRS Observation Tools	Forthcoming
Participant information (N=156)	MSG rates (I)	2 open-ended questions	
# & type of trainings/participant	EFL gains (E)	Collection ongoing	

# Organizing the Data (N=156)

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## LMS Data

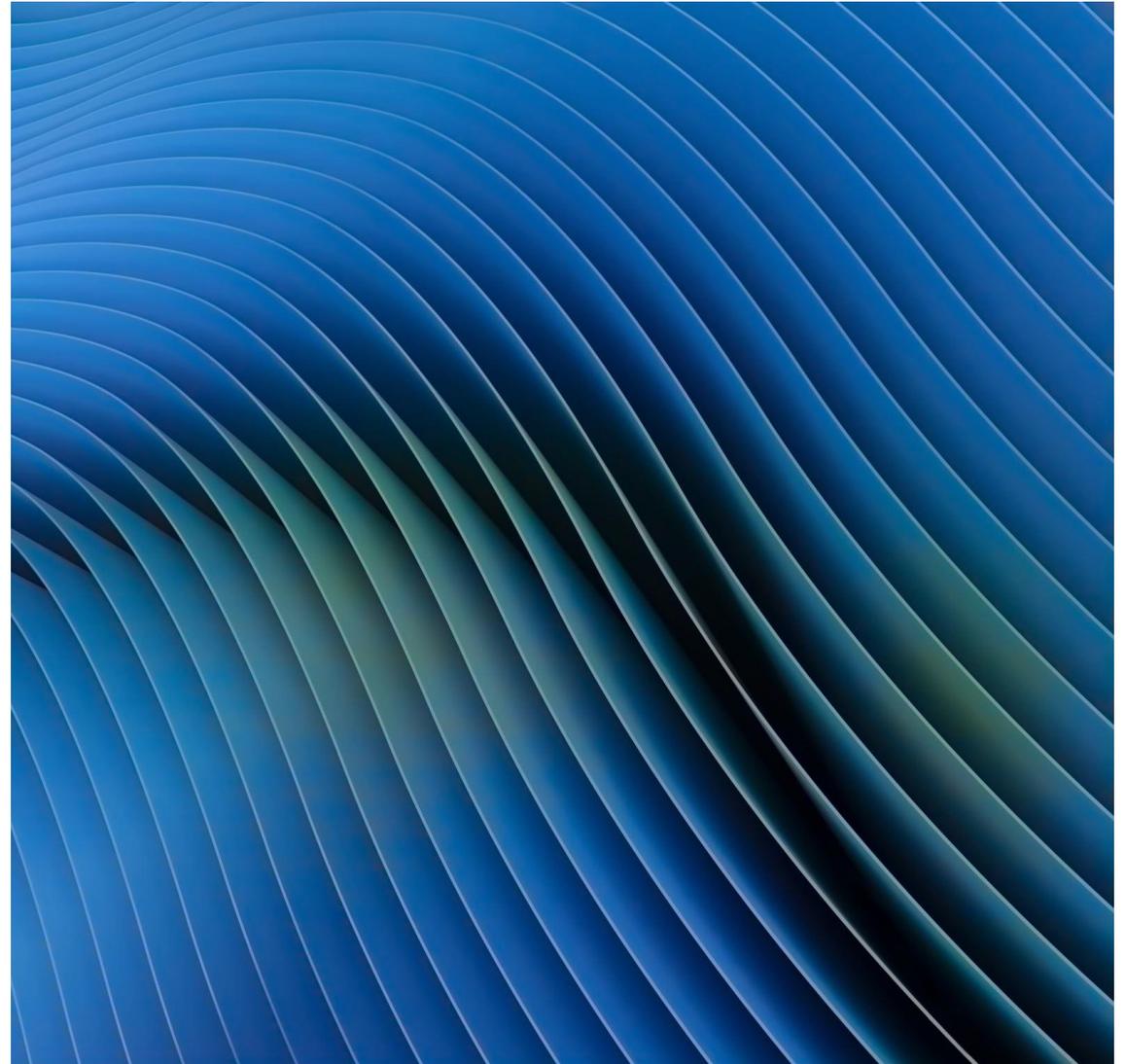
- Rank by 1<sup>st</sup> CCRS year
- Rank by # trainings
- Online v F2F

## NRS Data

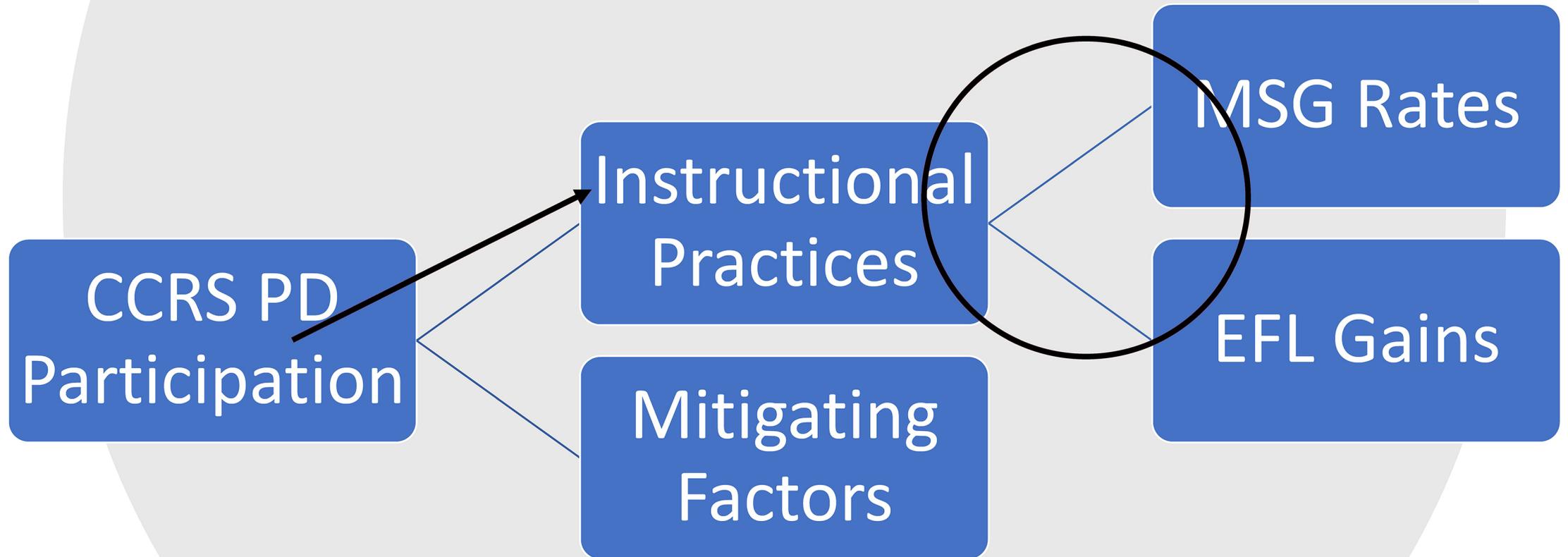
- MSG rates by teacher
- EFL gains by teacher

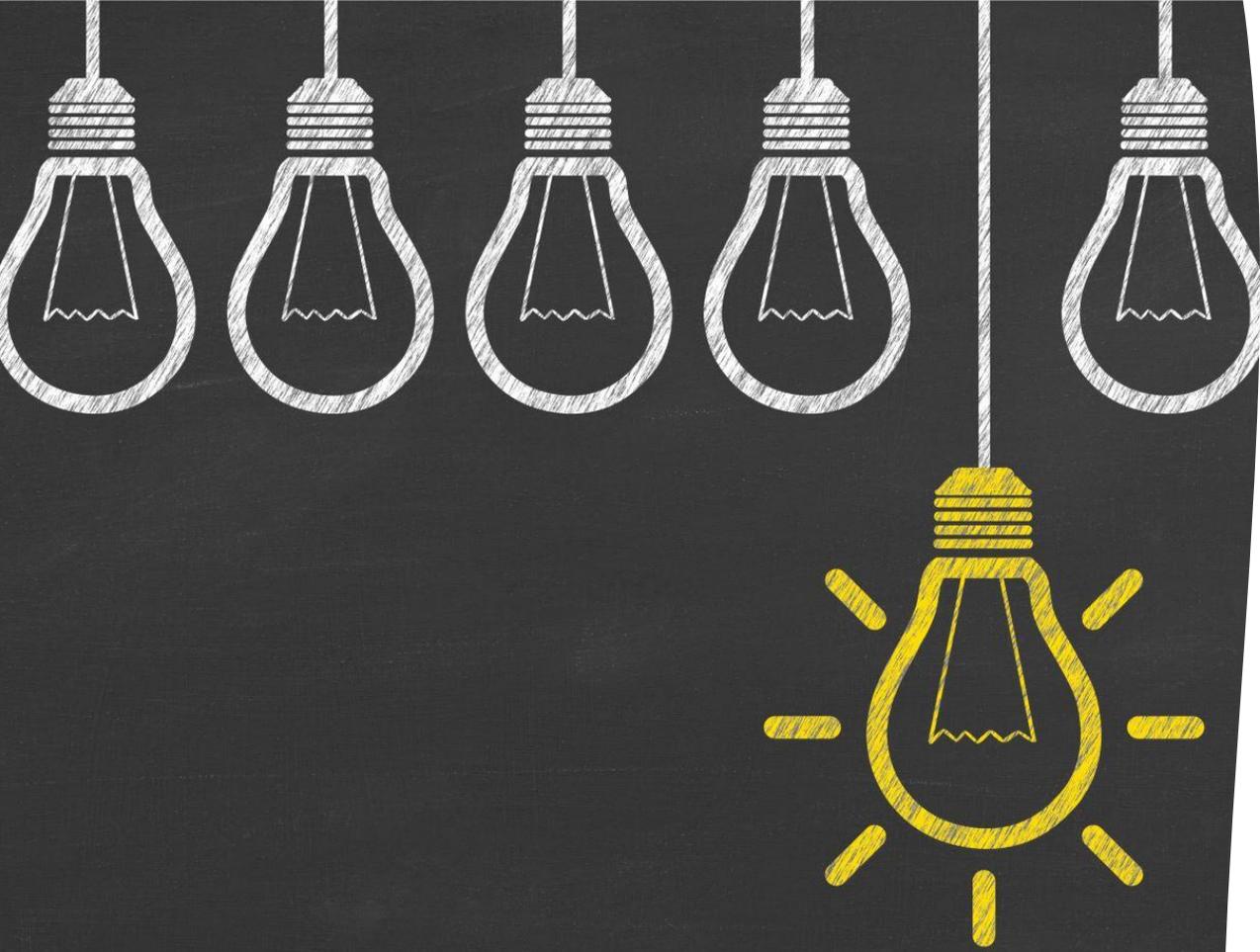
## Sub-grouping the study sample

- High & low CCRS participation rates
- High & low MSG rates



# Data Analysis Process





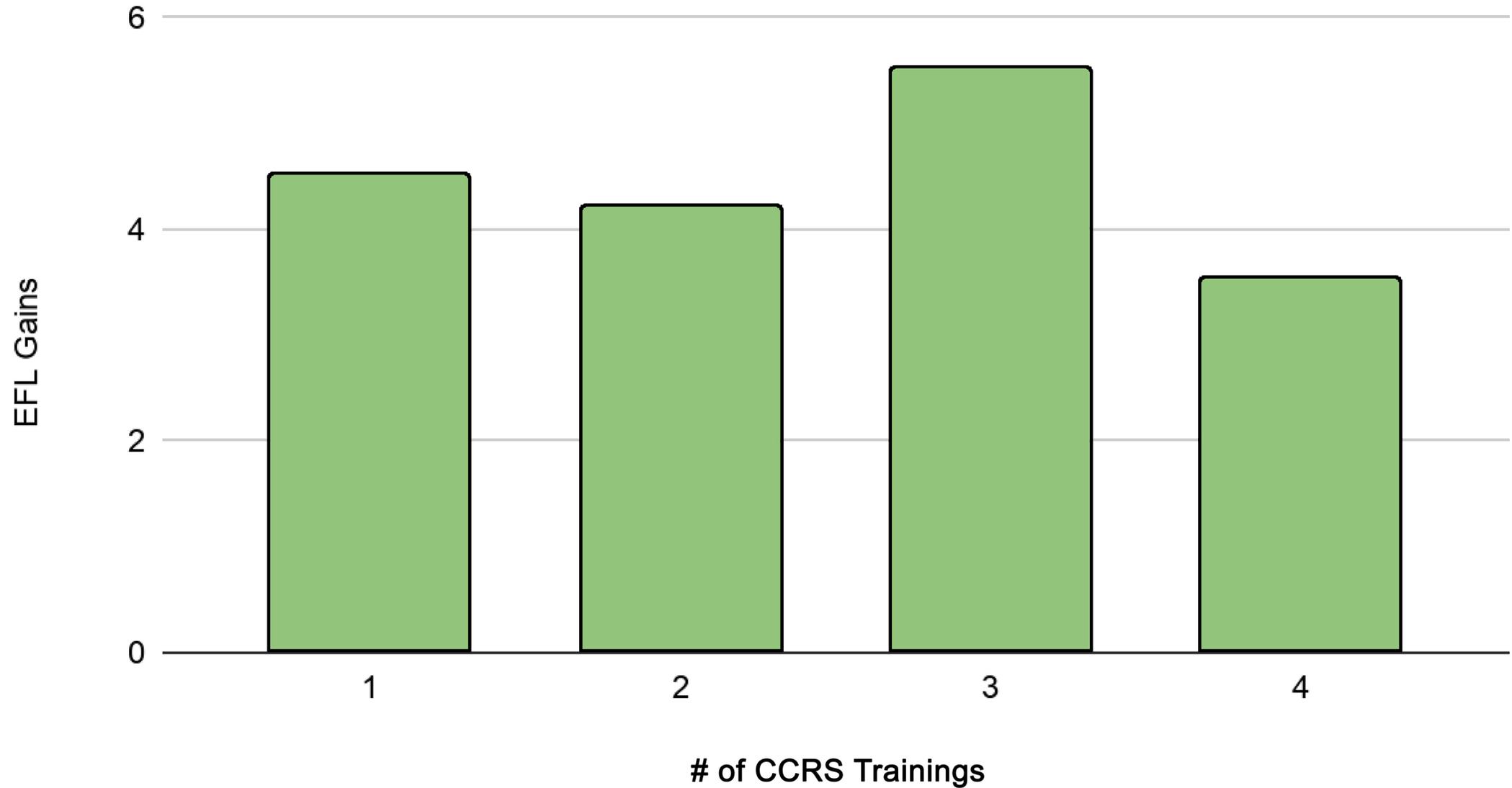
# Preliminary Findings

**Process:** We are developing a methodology to examine relationships between PD, instructional practices, and learner outcomes (MSG and EFL).

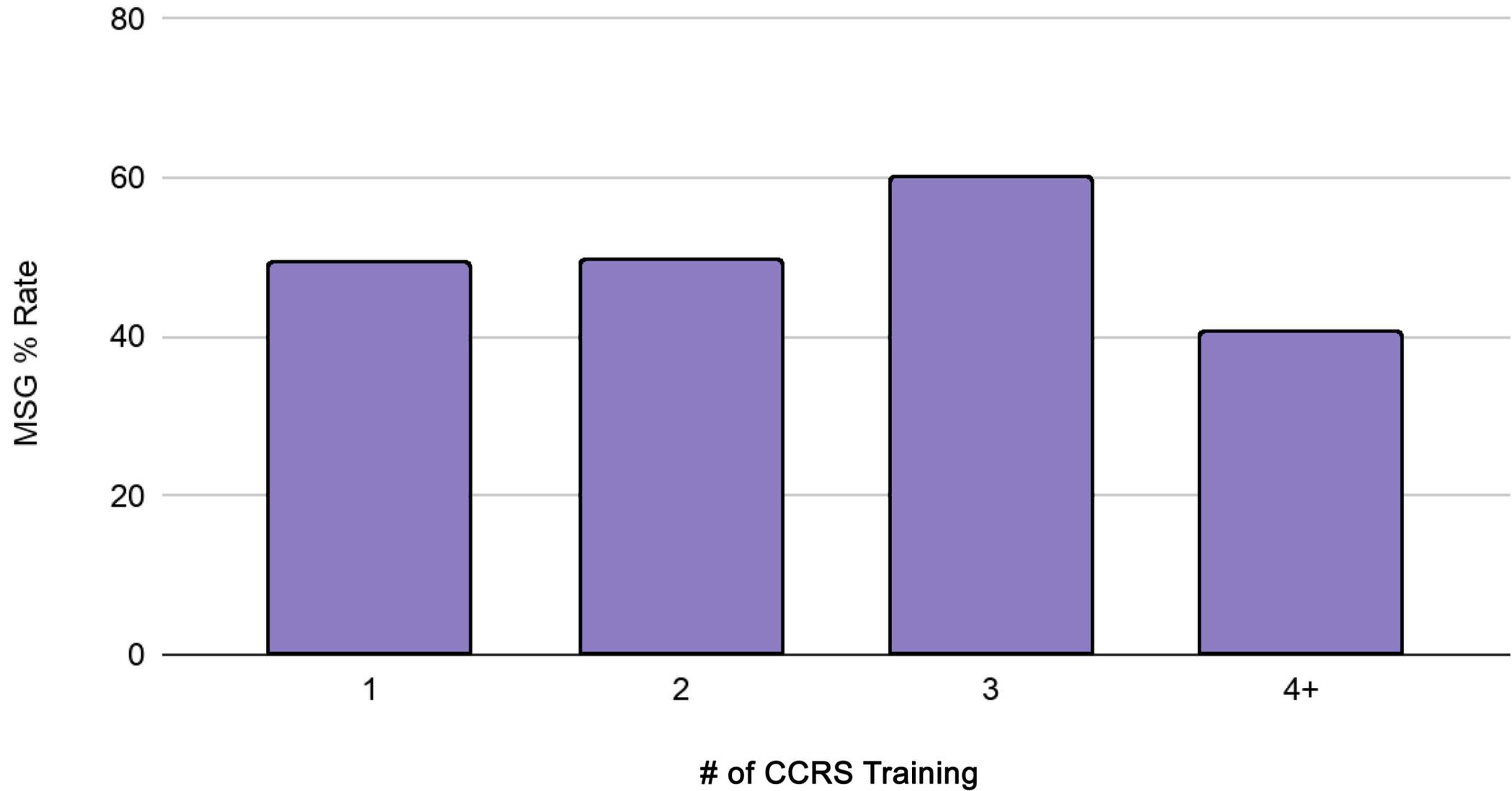
Preliminary findings show that

- the teacher group who participated in CCRS PD had higher MSG rates and EFL gains than the overall teacher population; and
- teachers who participated in more of our CCRS PD (3 and more) utilized a wider variety of instructional practices than teachers who participated in fewer trainings (1 or 2).

# # of CCRS Trainings & EFL Gains



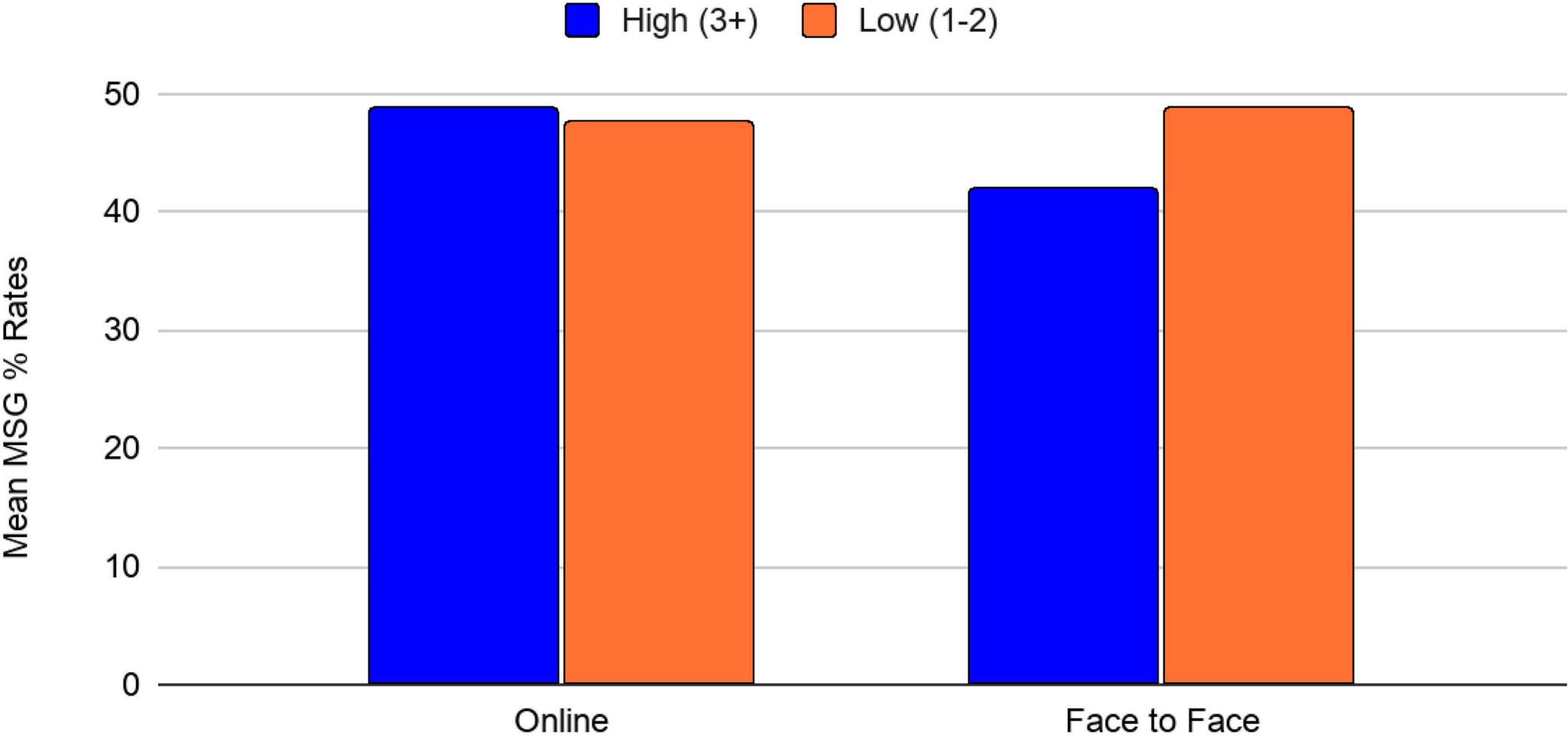
# # of CCRS Trainings & MSG Rates



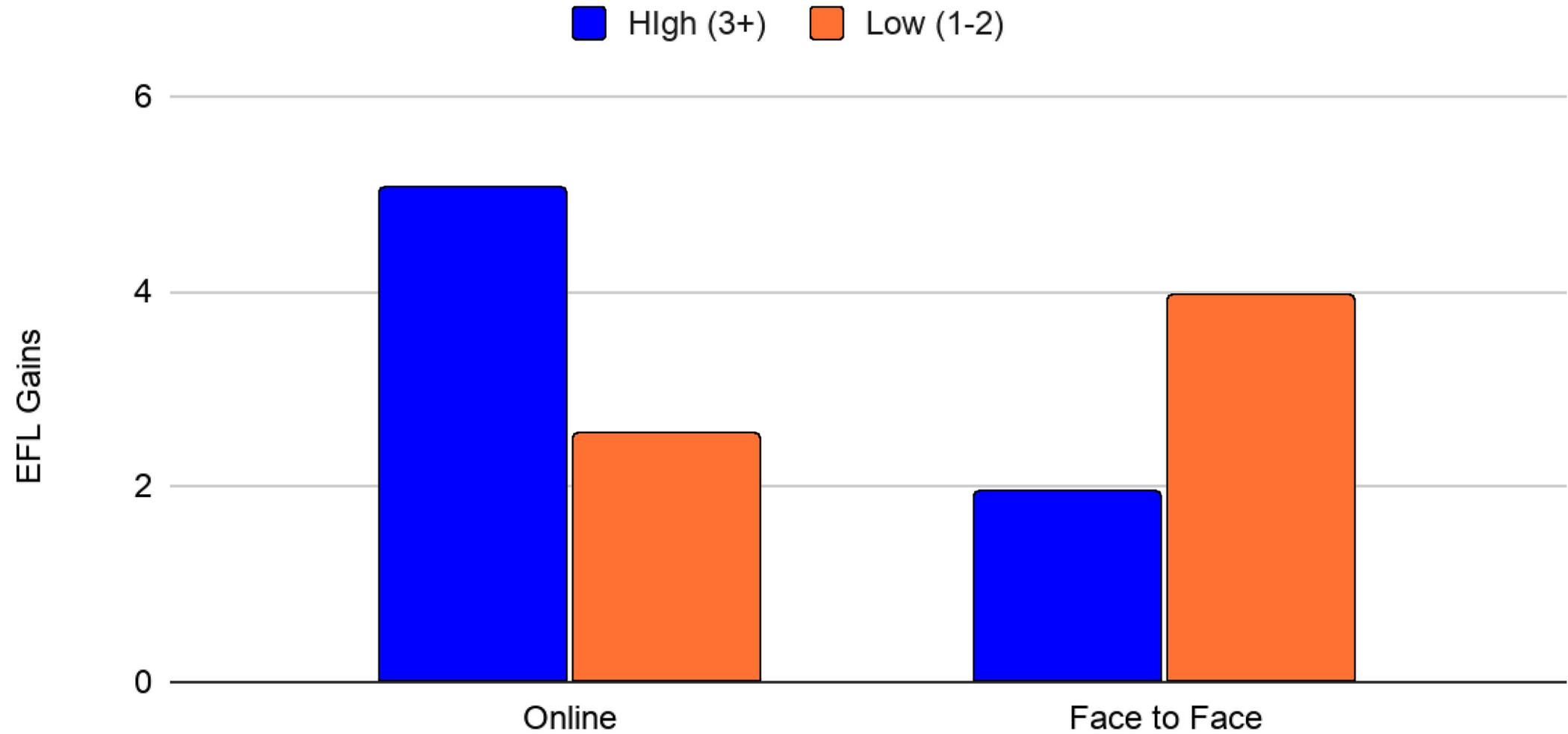
# # of CCRS trainings & MSG target

	<b>Met MSG target</b>	<b>Did not meet MSG target</b>
Low CCRS trainings	Count 38 Expected 40	Count 43 Expected 41
High CCRS training	Count 39 Expected 37	Count 36 Expected 38

# Association Between Type of Training and MSG % Rates



# Association Between Type of Training and EFL Gains



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# Survey on the Implementation of the CCRS

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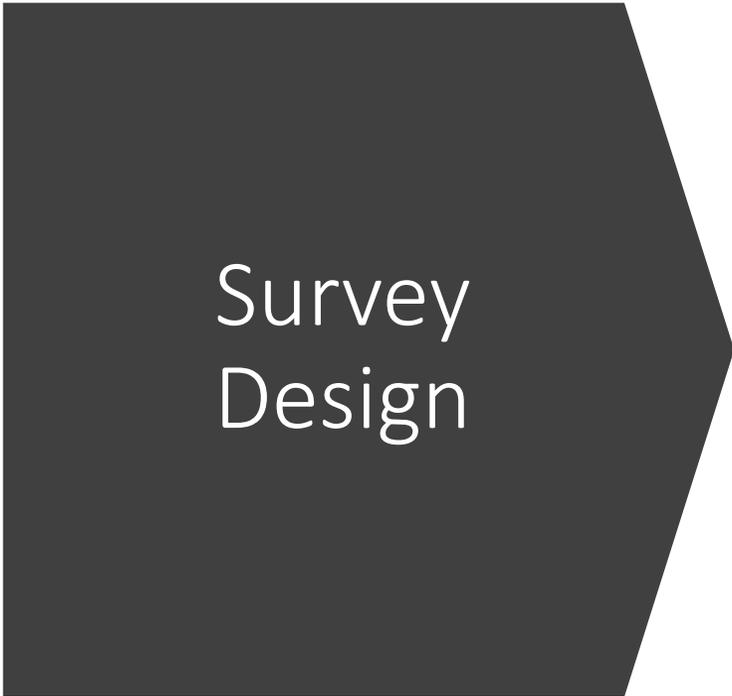
Based on CCRS Observation Protocols

What does CCRS implementation look like at varying levels of PD participation and MSG rates?

# Population Sub-groups

High CCRS High MSG	High CCRS Low MSG
Low CCRS Low MSG	Low CCRS Low MSG

- N=156
- High CCRS PD: 3 and more
- High MSG rate: >43%

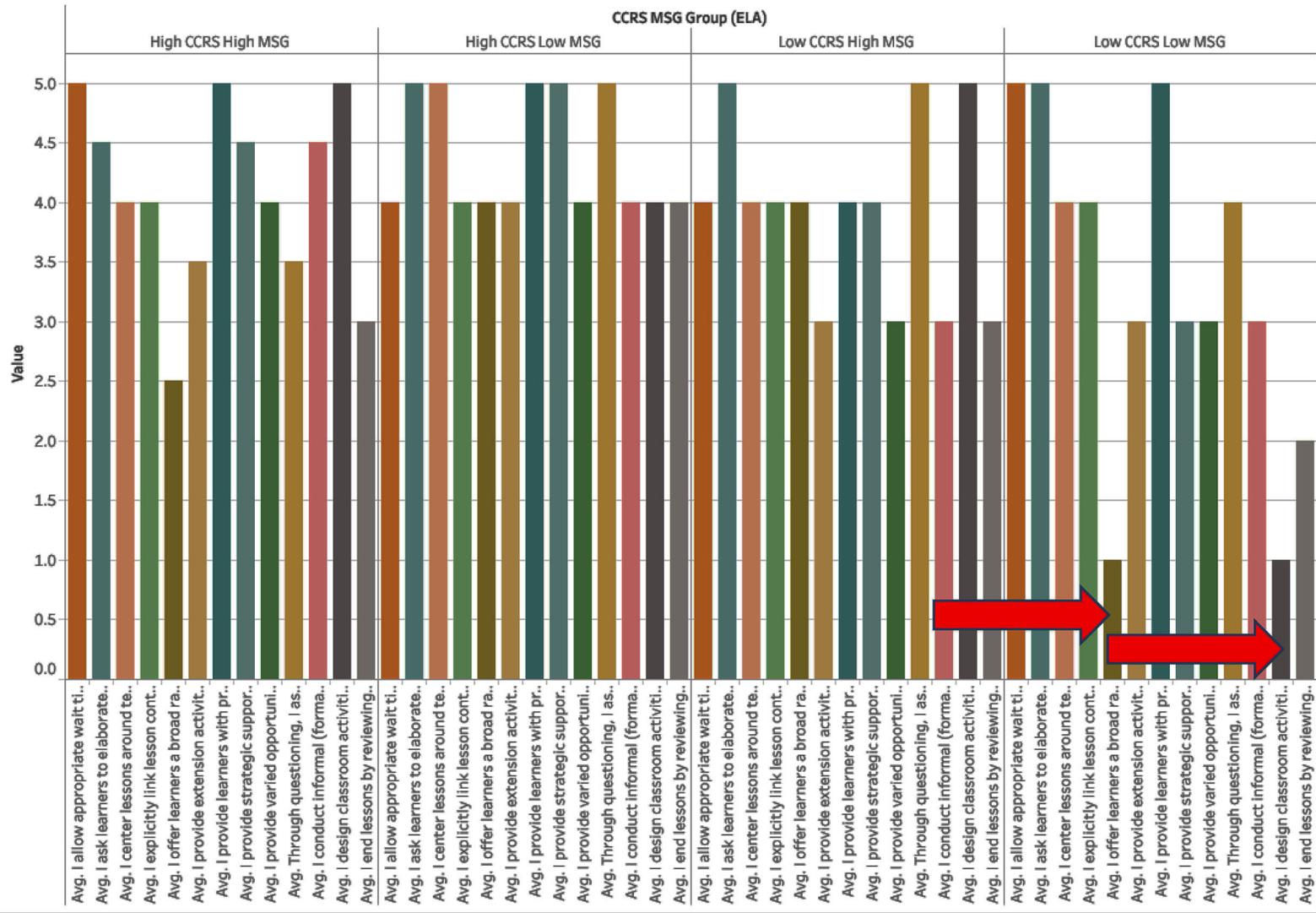


# Survey Design

- **3 versions**
  - English language arts
  - English language proficiency
  - Math
- **3 sections**
  - Instructor information (name, program, region, content)
  - Likert-scale items (12 or 13) adapted from CCRS Observation tool protocol
  - 2 open-ended questions on instructional practice

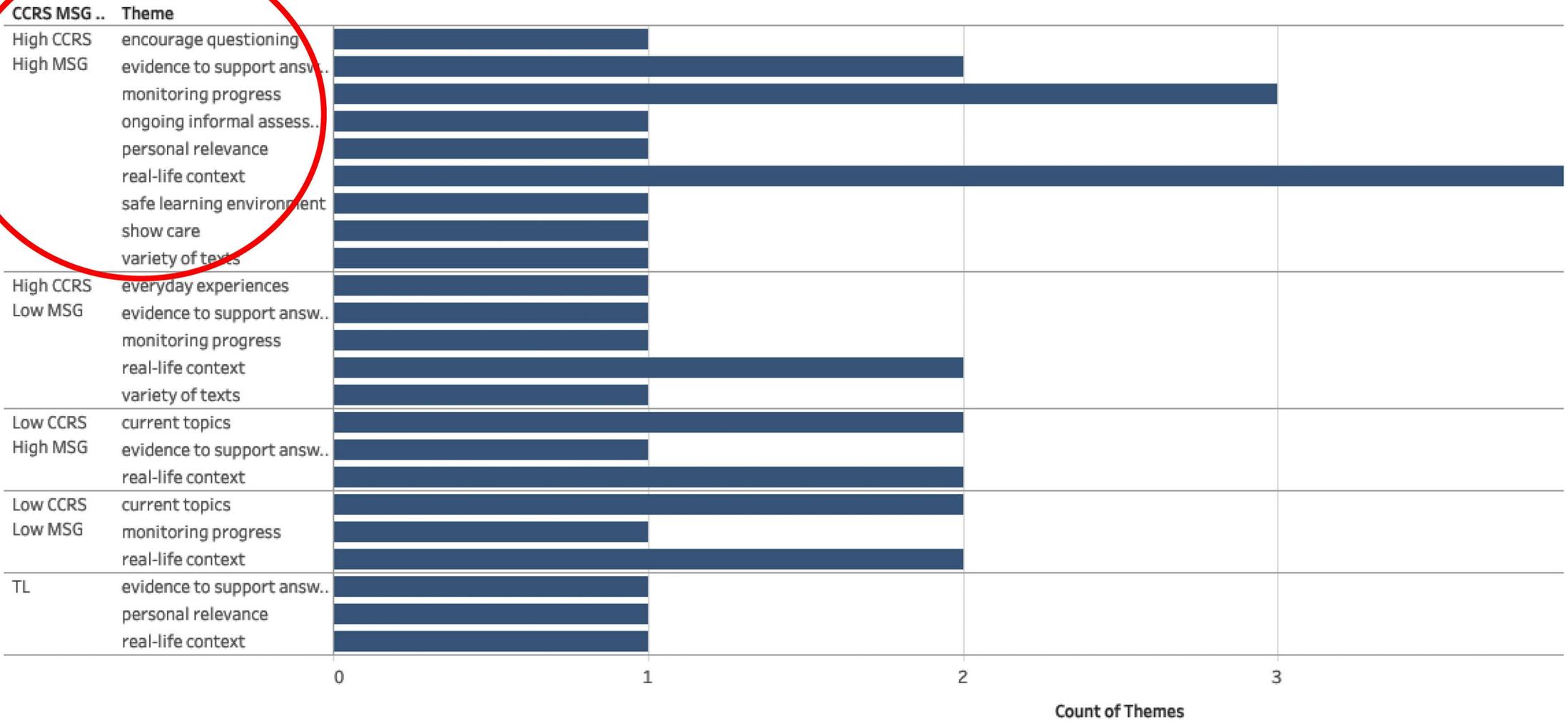
## Open-ended question examples

- Provide at least one example of a unit, lesson, or activity that provides learners with opportunities to apply new concepts to authentic or adult-oriented contexts.
- Describe the kinds of supports and scaffolds you provide to learners who need them in order to understand content and reinforce learning.

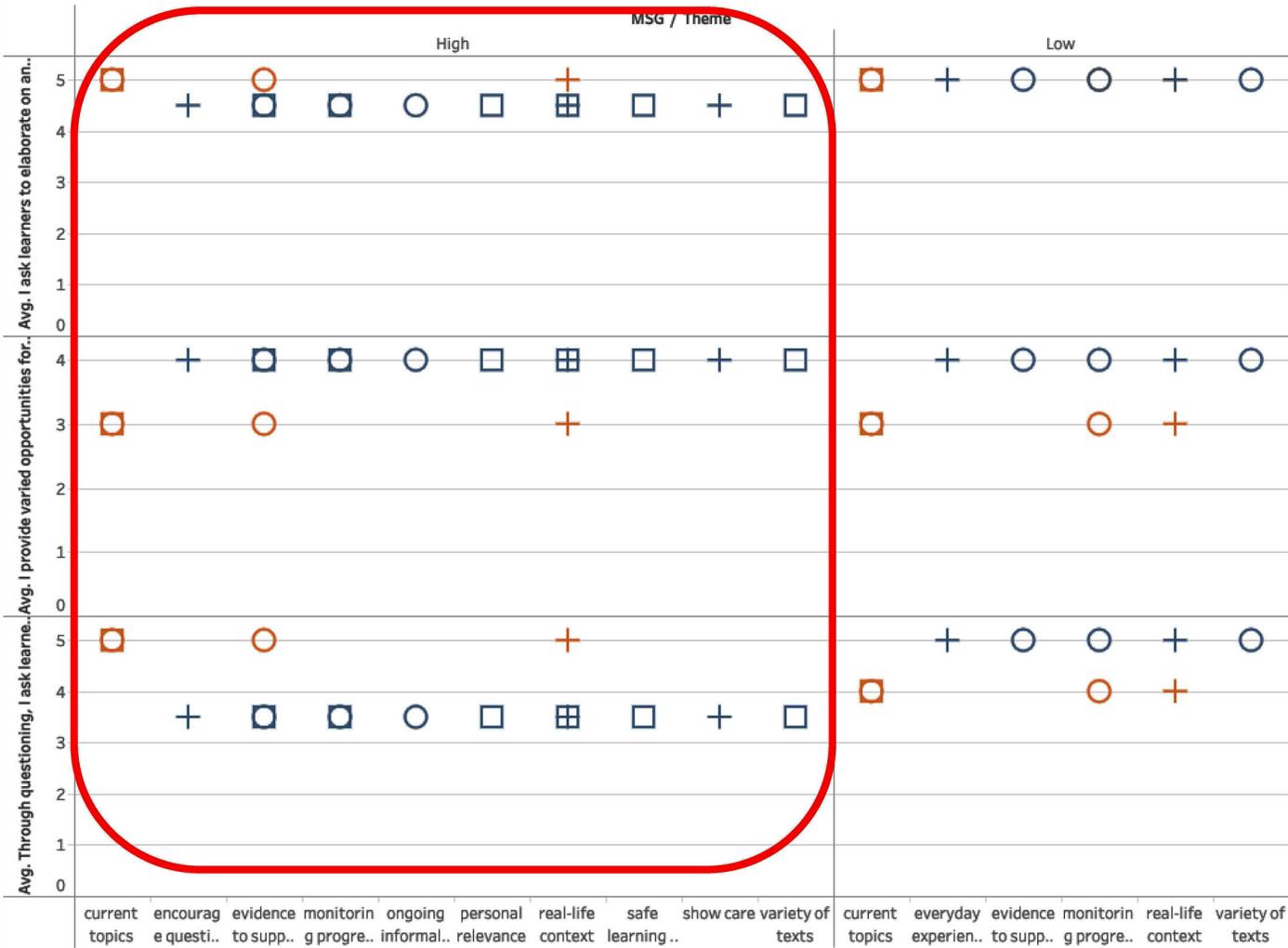


ELA Survey Responses by CCRS/MSG Group

## Themes by CCRS/MSG Grouping



Average survey responses by MSG level



# Preliminary Survey Findings

# Implications for Educators

Our findings are preliminary, and survey responses still represent a small portion of adult education teachers in Virginia.

Based on these preliminary findings, the data indicate that

- higher levels of CCRS PD participation (3 or more) relates to **more variety in instructional practice**, including the use of a wider range of teaching strategies; and
- a wider range of instructional strategies used in the classroom may relate to higher MSG and EFL gain rates.

# Implications for Professional Development

We now have a process in development that may strengthen our capacity to

- connect disparate datasets to examine relationships between PD and performance;
- more accurately target PD to demonstrated instructional skills gaps;
- more accurately determine the influences of PD on instructional behaviors;
- identify and highlight best practices among our teacher population;
- expand our pool of teacher leaders to represent a wider range of instructional experiences by providing us with another way to learn about instructional practices across the state; and
- better meet the needs of teachers and learners through more accurately targeted technical assistance.

# Going Forward

- **Future research**
  - Compare with those who did not receive CCRS training
  - Look at survey data from a larger sample of instructors
  - Collect data over multiple years
  - Look at post-test rate and/or teacher retention
- **Implementation**
  - Continue to streamline the methodology for analyzing teacher-level data
  - Conduct regular check-ins with instructors regarding how CCRS is being implemented to help drive more targeted PD

# Questions

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