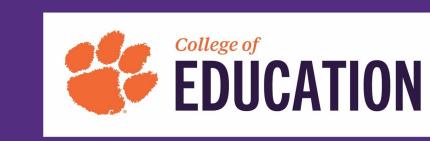


Exploring Perceived Competencies of Multilingual Elementary Students and their Teachers in Literacy and Academic Content



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Background

- Despite the rise in multilingual (ML) learners in U.S. schools, most general teacher preparation and in-service professional development (PD) programs dedicate little coursework or practical experiences to developing effective pedagogical practices that address the specific learning needs of MLs (Heineke & Vera, 2023; Santibañez & Gándara, 2018).
- In order to reduce inequalities in academic outcomes for MLs, *all* teachers must be better prepared to effectively instruct MLs (García & Kleyn, 2013).

Research Aims & Questions

Study Aims

- Identify mainstream elementary teachers' perceived areas for growth in pedagogical content knowledge (PCK) areas related to literacy and content instruction
- Identify MLs' perceived areas of challenge in literacy learning and language development
 Compare the two groups' findings for the purpose of generating insight into future teacher professional development offerings

Research Questions

- 1. In which areas of PCK competence do mainstream elementary teachers of MLs perceive a need for further development?
- 2. What areas of literacy, language, and academic learning do elementary MLs perceive as challenging?
- 3. How do teachers' perceptions of PCK competence compare with students' perceptions of competence in literacy, language, and academic learning?

Theoretical Framework

Pedagogical Content Knowledge (PCK)

Effective teachers must develop the awareness to discern and select the most comprehensible approaches for teaching particular concepts respective to students' diverse learning needs and developmental stages (Shulman, 1986).

Perceived Competence and Autonomy-Supported Learning Environments

Basic Needs Theory, a sub-theory within Self-Determination Theory (Ryan & Deci, 2020), is defined by the fulfillment of three psychological needs: autonomy, relatedness, and competence. When these needs are met, students are more likely to be intrinsically motivated and achieve at higher levels. This study focuses on the competence aspect of BST, exploring teachers' and students' self-identified perceptions of competence, or a sense that one can master the knowledge needed to be successful in literacy teaching and learning, respectively. (Deci & Ryan, 2004; Froiland & Oros, 2014).

Study Design & Methods

This investigation utilized selected data collected from 30 K-12 teachers and their students who were originally recruited as part of a larger design-based research (DBR) study seeking to improve teachers' capacity for multilingual (ML) instruction within a culturally and linguistically diverse school district in a southeastern state.

Present Study Participants

Participants from the larger DBR study were included for the present study if they met the following criteria:

Teachers (n = 22)

- Currently teaching elementary (K-5)
 Identified as having MLs in their
 Identified as received
- classes currently or in the past
- Some teachers identified a range of elementary grades they are qualified to teach and some identified the grade level they were currently teaching
- All teacher participants for this study were in the range of K-5

Students (*n* = 27)

 Identified as receiving English language services currently or in the past

<u>Grade</u>	<u>n</u>
Kindergarten	10
First	2
Second	2
Third	9
Fourth	1
Fifth	3

Data Collection

- In the larger DBR study, teachers filled out a survey with both open- and closedended questions, and also administered a needs assessment survey to their students.
- The current study analyzed teachers' responses from the following question referencing instructional strategies related to literacy teaching: "Is there any knowledge listed above, in particular, that you would like help with?" Three rounds of responses collected in the spring, summer, and fall of 2022 were analyzed for a total of 48 responses from 22 teachers.
- The following student survey question was analyzed: "Is there any learning that the student feels they struggle with?" One round of student responses was analyzed for a total of 27 ML responses.

Method of Analysis & Results

- Following the grounded theory method of analysis (Charmaz, 2014), two coders individually generated emergent action-based initial codes for each teacher and student response in the dataset and discussed coding until 100% inter-rater agreement was reached for a total of 20 unique initial teacher codes and 7 unique student codes
- Focused codes were developed by comparing and synthesizing salient themes within the initial codes
- Theoretical codes were generated by comparing focused codes within and across
 the teacher and student groups to form a summarizing statement of each groups'
 perceptions as well as connect perceptions to the theoretical frameworks (PCK and
 perceived competence within the BNT sub-theory).

Discussion & Implications

- Mainstream elementary teachers and elementary MLs both reported a need for explicit knowledge development in foundational areas of literacy teaching and learning, respectively, drawing a connection between the two sets of competencies
- The theoretical code for teachers emphasized their need for further training in *how* to teach foundational literacy skills that is also supportive of language development in the emergent stages
- Theoretical code for MLs demonstrated a knowledge gap in the *what* the language, literacy, and academic content that is suitable for simultaneous emergent literacy and English development
- By comparing theoretical codes, we can make connections to how teachers' PCK competence may impact MLs' perceived competence
- When teachers perceive a need for more direct guidance in foundational skills instruction, students perceive their efforts as 'struggling' and may incorrectly attribute these struggles as personal deficits
- Understanding the connection between teachers' PCK competence and MLs' perceived competence can inform tailored PD in this district



Grounded Theory Analysis & Results

Table 1

Progression from Initial to Theoretical Codes for Teacher and Student Responses

Teacher Initial Codes	Teacher Focused Codes	Teacher Theoretical Code
Teaching academic writing to	Needing support in writing	Teachers identify a need for
students with low motivation	instructional strategies while	more explicit education in
Getting help with writing	simultaneously supporting	instructional strategies that
strategies	students' use of writing to	allow for concurrently
Supporting the writing	develop academic content and	supporting individual learners'
development of ESOL students	motivation	emerging English language
Using writing to introduce and		development as well as
extend academic knowledge		foundational literacy skills.
Training in writing instruction.		
Creating writing lessons		
Using assessments to design	Differentiating learning in small	
small group instruction	group instruction and making	
Providing small group	small group instruction	
instruction for individualized	meaningful	
learning		
Making small group time		
meaningful		
Applying PD coursework to		
small group instruction		
Learning strategies for language	Knowing how to provide	
acquisition	language support that promotes	
Providing language support	language acquisition	
Learning strategies to teach	Improving instruction to solidify	
basic foundational skills	foundational literacy concepts	
Teaching foundational strategies		
Teaching reading skills for early	Needing direction in supporting	
childhood	students' vocabulary	
Learning strategies to teach	development and foundational	
decoding/ Learning about small	reading skills	
group instruction		
Training in vocabulary		
instruction		
Helping ELLs orally decode &		
blend English words		
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Providing feedback to students	Analyzing performance data and	
for instructional needs.	effectively communicating it to	
Maintaining useful student	students	
progress data		
progress data Student Initial Codes	Student Focused Codes	Student Theoretical Code
	Student Focused Codes Communicating effectively in	Student Theoretical Code Students identify challenges in
Student Initial Codes		
Student Initial Codes Struggling to communicate	Communicating effectively in early stages of language	Students identify challenges in developing foundational
Student Initial Codes Struggling to communicate Struggling with language skills	Communicating effectively in early stages of language development	Students identify challenges in developing foundational language skills for
Struggling to communicate Struggling with language skills Struggling with reading	Communicating effectively in early stages of language development Developing foundational literacy	Students identify challenges in developing foundational language skills for communication, literacy, and
Struggling to communicate Struggling with language skills Struggling with reading Struggling with writing	Communicating effectively in early stages of language development Developing foundational literacy skills	Students identify challenges in developing foundational language skills for communication, literacy, and academic success, and these
Struggling to communicate Struggling with language skills Struggling with reading Struggling with writing Identifying as "not good" in	Communicating effectively in early stages of language development Developing foundational literacy skills Developing a negative academic	Students identify challenges in developing foundational language skills for communication, literacy, and academic success, and these challenges may negatively
Struggling to communicate Struggling with language skills Struggling with reading Struggling with writing	Communicating effectively in early stages of language development Developing foundational literacy skills	Students identify challenges in developing foundational language skills for communication, literacy, and academic success, and these