INHALE, EXHALE:

Promoting Mindfulness in the Elementary Classroom



Presented by:
Hailey Hemmerling
Learning Design and Technology
University of Hawai'i at Mānoa
Spring 2023







QUESTION FOR THE AUDIENCE



Name some words you think of when you hear self-regulation.

- type in the chat -















PBS:

Self-regulation is the process that a child's brain goes through that gives them the ability to control their behaviors and emotions in response to a particular situation.















PBS:

Self-regulation is the process that a child's brain goes through that gives them the ability to control their behaviors and emotions in response to a particular situation.











PRESENTATION OVERVIEW



INTRODUCTION

- Background
- Problem
- Instructional Goal
- Premise

03

EVALUATION

- Usability Study
- Learning Effectiveness Assessment

02

DESIGN

- Literature Review
- Instructional Scope & Sequence
- Technologies Used
- Domains of Learning
- Design Theories and Frameworks

04

CONCLUSION

- Meeting Project Goals
- Final Thoughts and Takeaways
- Implications for Further Research











01

INTRODUCTION









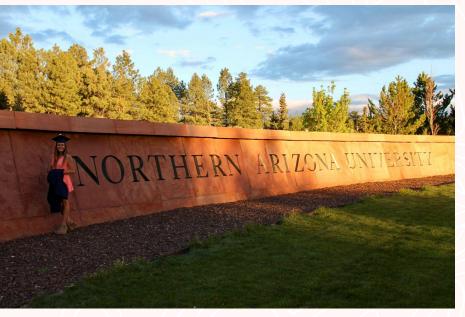
















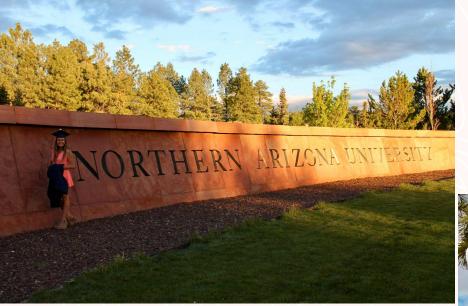










































PROBLEM STATEMENT

Social emotional learning (SEL) is not inherently taught to pre-service teachers, leaving them ill-equipped and unprepared to help students self-regulate in the classroom.



INSTRUCTIONAL GOAL

To design and produce instructional material that equips K-2 teachers with the knowledge and skills needed to feel comfortable in teaching meditative breathing and yoga in the classroom.



INSTRUCTIONAL GOAL

To design and produce instructional material that equips K-2 teachers with the knowledge and skills needed to feel comfortable in teaching meditative breathing and yoga in the classroom.



UPON THE END OF INSTRUCTION...

participants will have obtained new knowledge and skills that will help them feel comfortable in teaching meditative breathing and yoga in the classroom.



UPON THE END OF INSTRUCTION...

participants will have obtained new knowledge and skills that will help them feel comfortable in teaching meditative breathing and yoga in the classroom.



EMOTIONAL INTELLIGENCE

being aware of, controlling, and expressing ones emotions

EMOTIONAL INTELLIGENCE

being aware of, controlling, and expressing ones emotions

EMOTIONAL INTELLIGENCE

develop empathy for others and learn problemsolving skills

SOCIAL EMOTIONAL LEARNING

being aware of, controlling, and expressing ones emotions

develop empathy for others and learn problemsolving skills **EMOTIONAL INTELLIGENCE**

being aware of, controlling, and expressing ones emotions

SOCIAL EMOTIONAL LEARNING

SELF-REGULATION

understand ways to manage one's emotions





02

DESIGN





LITERATURE REVIEW





Incorporating SEL into Classroom Instruction

In regards to evidence-based SEL programming, the results showed better academic performance, improved attitudes and behaviors surrounding learning, fewer negative behaviors, and reduced emotional stress.

(Schonert-Reichl et al., 2017)









LITERATURE REVIEW





Incorporating SEL into Classroom Instruction

In regards to evidence-based SEL programming, the results showed better academic performance, improved attitudes and behaviors surrounding learning, fewer negative behaviors, and reduced emotional stress.

(Schonert-Reichl et al., 2017)

The Importance of Student Self-Regulation

Students who self-regulate are able to adapt their thoughts, feelings, and actions in relation to their motivation and learning.

(Boekaerts and Corno, 2005)









LITERATURE REVIEW





Incorporating SEL into Classroom Instruction

In regards to evidence-based SEL programming, the results showed better academic performance, improved attitudes and behaviors surrounding learning, fewer negative behaviors, and reduced emotional stress.

(Schonert-Reichl et al., 2017)

Student **Self-Regulation**

Students who self-regulate are able to adapt their thoughts, feelings, and actions in relation to their motivation and learning.

(Boekaerts and Corno, 2005)

The Importance of Yoga as a Mindfulness **Practice in the** Classroom

There is improvement in emotional health and increases in self-esteem, self-confidence, and level of joy as a result of yoga implementation in the classroom.

(Chen and Pauwels, 2014)









INSTRUCTIONAL SCOPE AND SEQUENCE

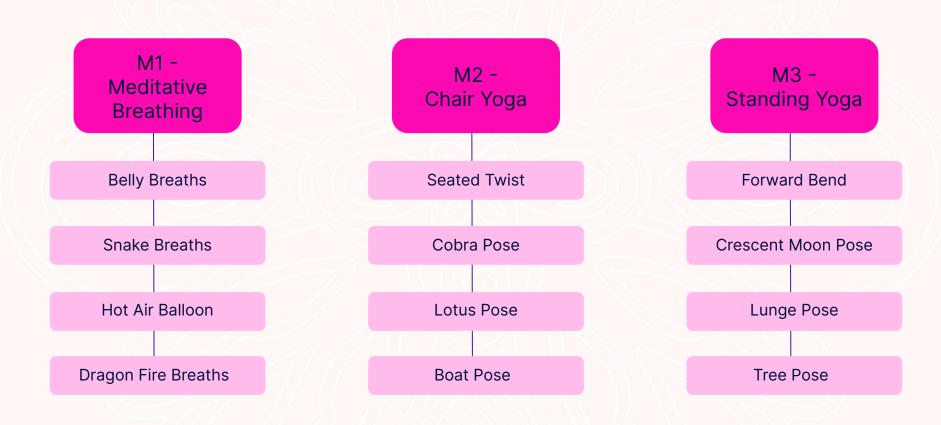
K-2 teachers are comfortable in their knowledge and skills to incorporate meditative breathing and yoga in the classroom to improve mindfulness.

Introduction

Emotional Intelligence

Self-Regulation

INSTRUCTIONAL SCOPE AND SEQUENCE



TECHNOLOGIES USED







































DOMAINS OF LEARNING





COGNITIVE

Measured through the pre and post assessment results



AFFECTIVE

Measured through the retrospective survey responses





DESIGN THEORIES AND FRAMEWORKS

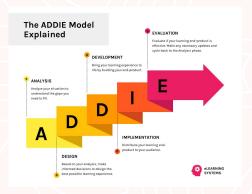








ADDIE



ARCS



Gagne's Nine Events











DESIGN THEORIES AND FRAMEWORKS









Mayer's Multimedia Design Principles

12 Principles



Merrill's Principles of Instruction













03

EVALUATION

USABILITY STUDY



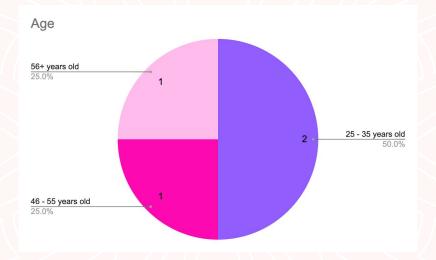




PARTICIPANT CHARACTERISTICS (n=4)







100% Female







Thematic Analysis Of Positive And Negative Comments By Usability Category (n = 4)

Category	Total	Positive	Negative
Visual Design	12	12 (100%)	0 (0%)
Content	23	20 (87%)	3 (13%)
Navigation	9	6 (67%)	3 (33%)
	44	86%	14%

Thematic Analysis Of Positive And Negative Comments By Usability Category (n = 4)

Category	Total	Positive	Negative
Visual Design	12	12 (100%)	0 (0%)
Content	23	20 (87%)	3 (13%)
Navigation	9	6 (67%)	3 (33%)
	44//	86%	14%

The matic Analysis Of Positive And Negative Comments By Usability Category (n = 4)

Category	Total	Positive	Negative
Visual Design	12	12 (100%)	0 (0%)
Content	23	20 (87%)	3 (13%)
Navigation	9	6 (67%)	3 (33%)
	44////	86%	14%







"Sounds like it would be beneficial for all students, especially students that are suffering from some of their inner struggles."









"Sounds like it would be beneficial for all students, especially students that are suffering from some of their inner struggles."

"It's something you can do in the classroom with the resources you already have."















POSITIVE PARTICIPANT COMMENTS







CONTENT

- Inclusive photos
- Great resource
- Interactive videos
- Concise
- Buzzwords, headings
- Good media variety



















CONTENT

- Inclusive photos
- Great resource
- Interactive videos
- Concise
- Buzzwords, headings
- Good media variety



NAVIGATION

- Flows well
- User-friendly
- Easy to navigate
- Can get to the modules from two different places











POSITIVE PARTICIPANT COMMENTS









CONTENT

- Inclusive photos
- Great resource
- Interactive videos
- Concise
- Buzzwords, headings
- Good media variety



NAVIGATION

- Flows well
- User-friendly
- Easy to navigate
- Can get to the modules from two different places



VISUAL DESIGN

- Calming colors go with theme
- IKEA-looking, clean
- Symmetrical, great layout
- Not overly-stimulating
- Neat and tidy













NEGATIVE PARTICIPANT COMMENTS





CONTENT

"If I was to look for something that I was going to use in the classroom, I would go straight to resources, because that's what I would use."



CONTENT

"The 'Modules' tab should be named something different to grab the teacher's attention."







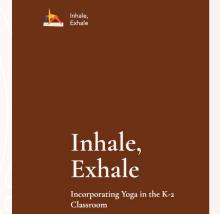




Inhale, Exhale

Incorporating Yoga in the K-2 Classroom







Home

In The Classroom

Resources

About





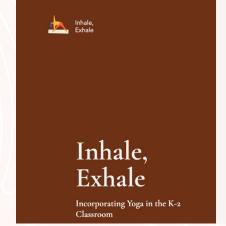




Inhale, Exhale

Incorporating Yoga in the K-2 Classroom











LEARNING EFFECTIVENESS



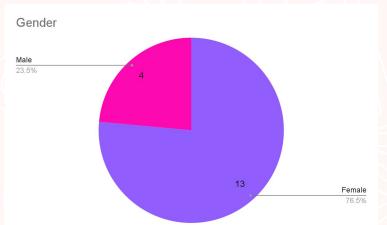


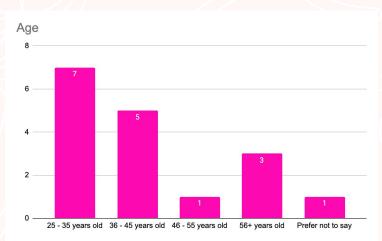


PARTICIPANT CHARACTERISTICS (n=17)















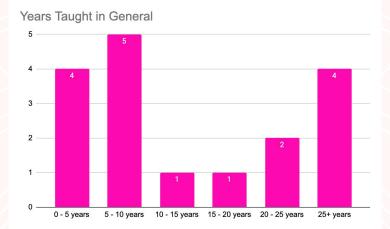


PARTICIPANT CHARACTERISTICS (n=17)





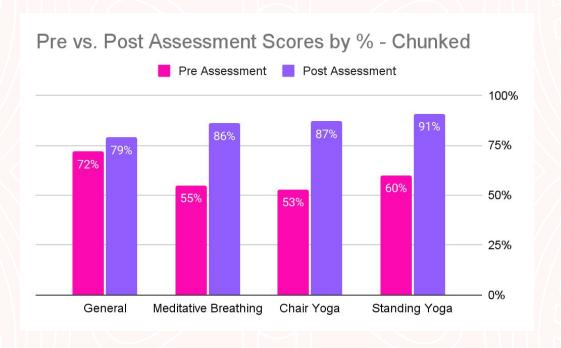


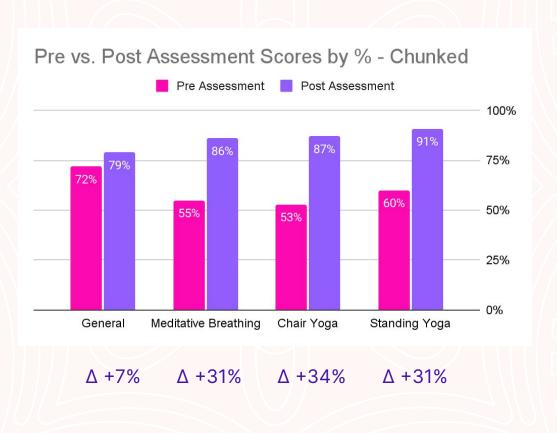


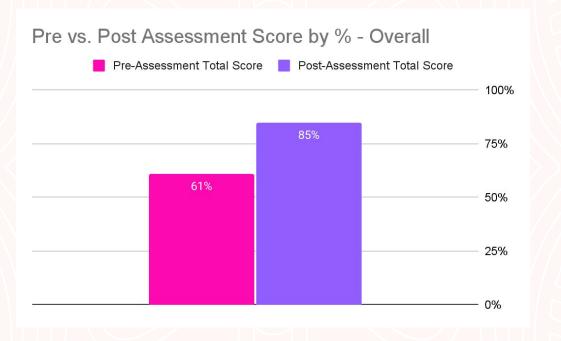


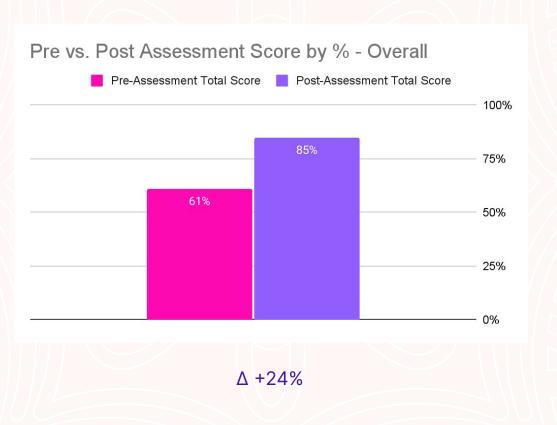
















List two reasons why students have poor self-regulation















List two reasons why students have poor self-regulation

- "Overall better engagement and peer relationships"
- "I still say too much screen time is a problem, and they have not been taught self-regulation."
- "Not taught and need to practice them"
- "1) they weren't taught 2) weren't exposed"















List two reasons why students have poor self-regulation

- "Overall better engagement and peer relationships"
- "I still say too much screen time is a problem, and they have not been taught self-regulation."
- "Not taught and need to practice them"
- "1) they weren't taught 2) weren't exposed"





- their biological make-up
- unique temperaments
- the environment
- parent-child interactions
- ADHD / anxiety





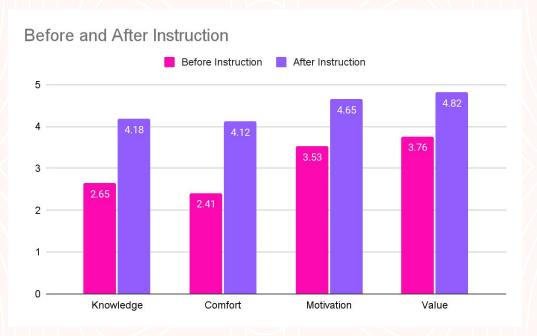




Select the response which contains the two words that make the following statement true. Emotional intelligence allows people to face their internal and problems. Although, people are not born with the to be emotionally intelligent, it must be learned and practiced. extra and ability outside and information	*
external and ability	
important and understanding	1
Select the response which contains the two words that make the following statement true.	*
While emotional intelligence is a broad term with many concepts underneath it, the key to the foundation is Equipping oneself to be emotionally intelligent is not a(n) endeavor.	
community and difficult	
culture and easy	
support and overused	
money and easy	5
Select the response which contains the two words that make the following statement true. People may not realize it, but they use self-regulation skills They learn skills such as working memory, attention, and inhibitory control.	*
o sometimes and flexible	
everyday and selective	
often and receptive	
everyday and flexible	8

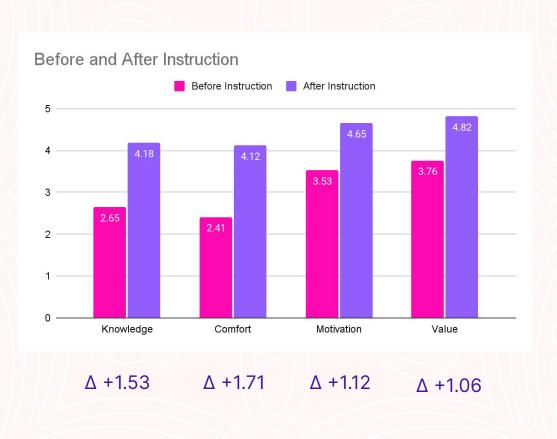
Select the response which contains the two words that make the following statement true. Students who can properly self-regulate exhibit less aggression and are less likely to from peers and learning. Students with poor self-regulation skills may face increased, emotional, and academic problems, in and outside of school. or run and peer withdraw and behavioral	*
o move and behavioral	
withdraw and lunch	0
Select the response which contains the two words that make the following statement true.	*
Yoga can help students calm their mind and their emotions. Yoga can even help students to take time to self-regulate.	
relate and some	
use and older	
process and young	
understand and all	8

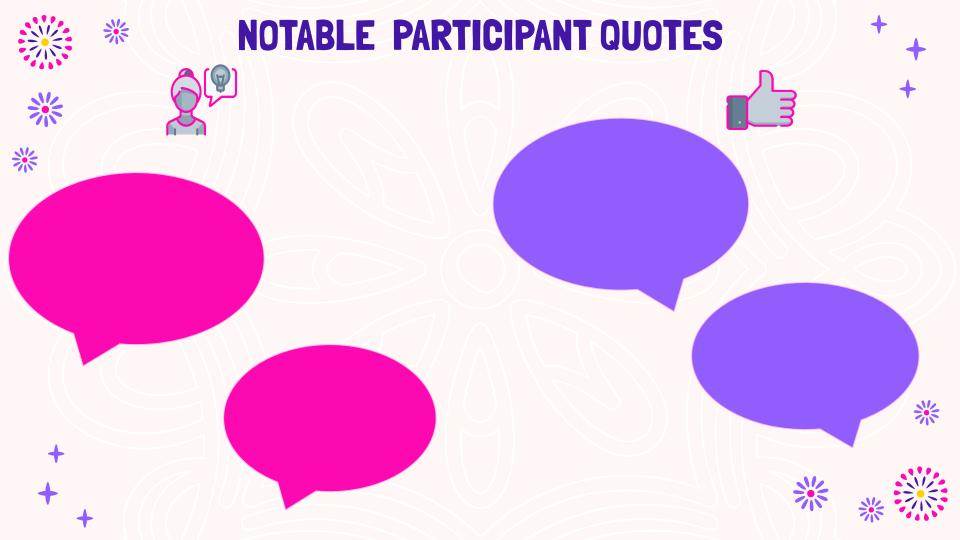
RETROSPECTIVE RESULTS

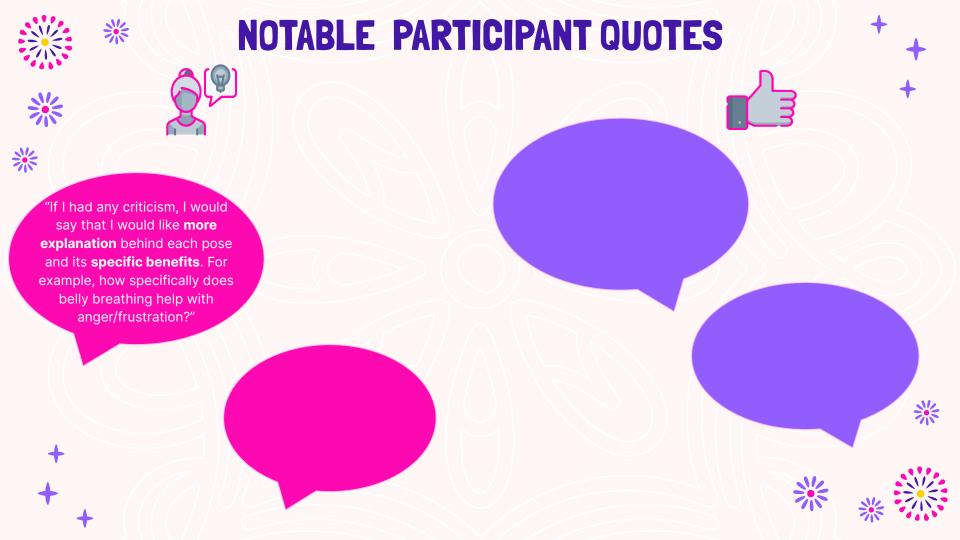


Five point Likert scale: Poor to Excellent

RETROSPECTIVE RESULTS













"If I had any criticism, I would say that I would like more explanation behind each pose and its specific benefits. For example, how specifically does belly breathing help with anger/frustration?"

"There could have been paragraphs explaining why these techniques work best during their specified scenarios."







絲









"If I had any criticism, I would say that I would like more explanation behind each pose and its specific benefits. For example, how specifically does belly breathing help with anger/frustration?"

"There could have been paragraphs explaining why these techniques work best during their specified scenarios."



"I loved the engagement it had. The videos were short yet informative. I loved the little quizzes and graphics that went with it. It was incredibly organized and the material fit nicely together in a logical order."





絲













"I loved the engagement it had. The videos were short yet informative. I loved the little quizzes and graphics that went with it. It was incredibly organized and the material fit nicely together in a logical order."

"There could have been paragraphs explaining why these techniques work best during their specified scenarios."

"I really enjoyed the **blend**of **video types** between real
life examples, short
animated clips, and your
clips with kiddos."















04

CONCLUSION

WAS INSTRUCTION EFFECTIVE?













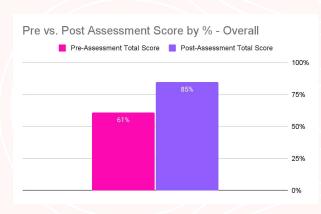
WAS INSTRUCTION EFFECTIVE?







COGNITIVE



 $\Delta + 24\%$





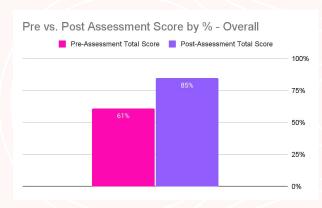
WAS INSTRUCTION EFFECTIVE?











 $\Delta + 24\%$







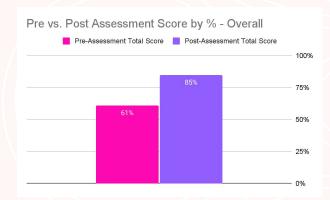






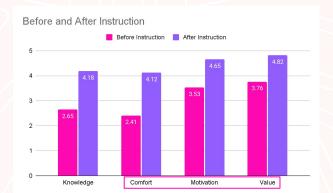








AFFECTIVE







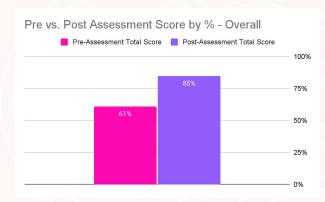






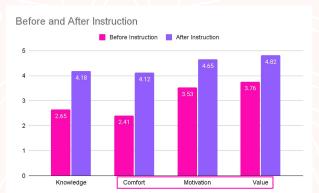








AFFECTIVE *****









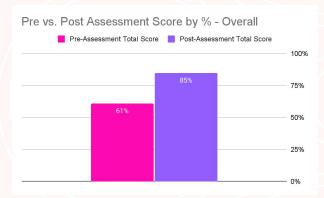








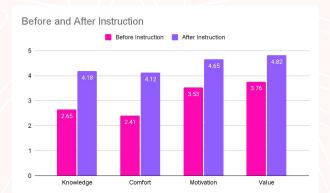


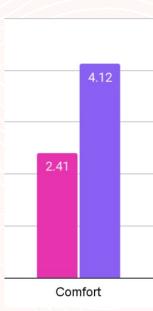






AFFECTIVE *****





TERMINAL

OBJECTIVE

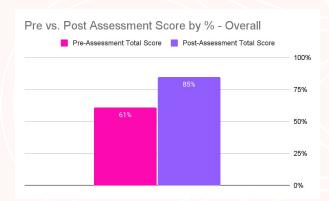






COGNITIVE



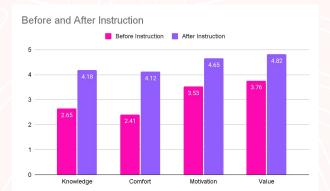


 $\Delta + 24\%$

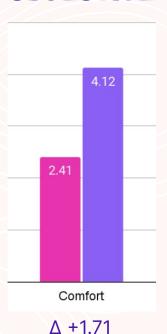




AFFECTIVE *****



TERMINAL OBJECTIVE







NOTABLE PARTICIPANT QUOTES





"I now have more ideas and tools to use with my students, and understand that not everyone is equipped with these strategies unless they are explicitly taught and practiced. I also think it will help me bond and create a deeper relationship with my students."









NOTABLE PARTICIPANT QUOTES





"I now have more ideas and tools to use with my students, and understand that not everyone is equipped with these strategies unless they are explicitly taught and practiced. I also think it will help me bond and create a deeper relationship with my students."

"I want to begin to use these strategies because I now understand how important they can be to help students throughout a normal school day."









FINAL THOUGHTS AND TAKEAWAYS













IMPLICATIONS FOR FURTHER RESEARCH



Students with disabilities

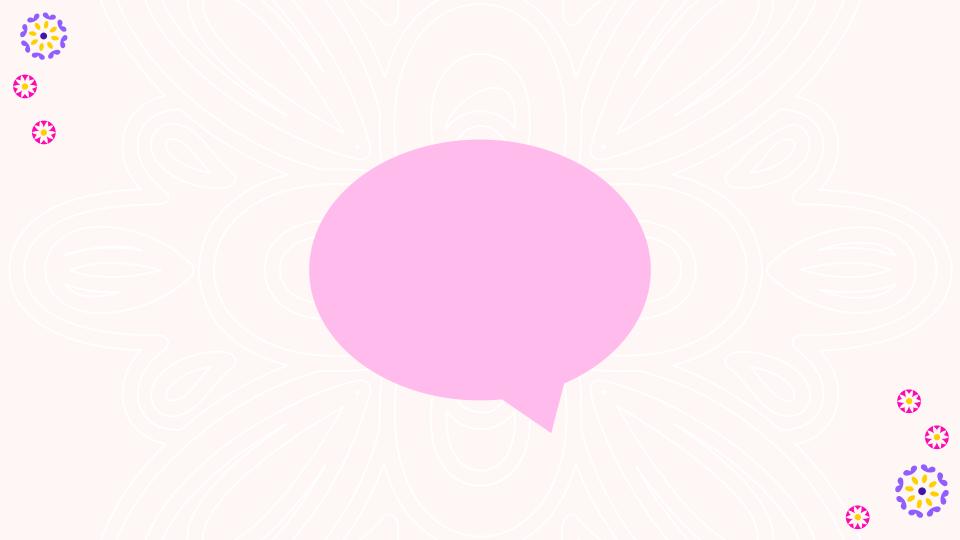


Scientific information



H5P glitch







"I wish I knew this at an earlier stage of my teaching career, but it is never too late to start something to help the students."



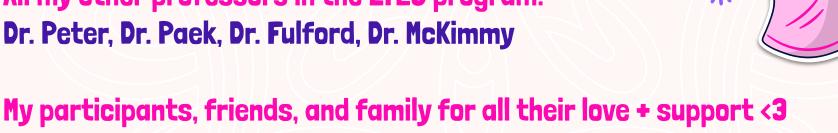
SPECIAL THANK YOU

My Professors and TA: Dr. Ari, Dr. Dan, and Sam

My Critical Friends: Lawrence, Sherri, and Rie

My Extended Critical Friends: Priscilla, NGL, and Jon

All my other professors in the LTEC program:







Mahalo for your time!