REIMAGINING DATA DRIVEN DECISIONS MAKING WITH THE USE OF INNOVATIVE TECHNOLOGY

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CURRENT TRENDS IN EDUCATION

- Shift toward virtual schooling
- Push for integration of evidence-based practices strengthening of online learning approaches
- More fieldwork built into educational courses, considered best practices
- Search for opportunities to create authentic experiences in which online students are able to apply their newfound content knowledge in the field

RATIONALE

- Push for teachers to employ evidence-based practices and data-driven decision making in the classroom
- Need for meaningful and relevant experiences to expose students to real-world classrooms to apply their knowledge
- Integration of video analysis

OUTCOMES SUPPORTED BY VIDEO ANALYSIS

- Framework originally developed by Schwartz & Hartman (2007)
- **Seeing**
  - Increase focused noticing (van Es & Sherin, 2002; van Es & Sherin, 2005)
- **Engaging**
  - Incites teacher interest in video analysis (Watts-Pailliotet, 1995)
- **Doing**
  - Strengthening video observation skills, structured observation increases interpretation and analysis founded on student data (van Es & Sherin, 2002; van Es & Sherin, 2006)
- **Saying**
  - Increases teacher reflection, promotes a change in belief and practice (Capizzi, Wehby, & Sandmel, 2010; Tripp & Rich, 2012; van Es & Sherin, 2002)

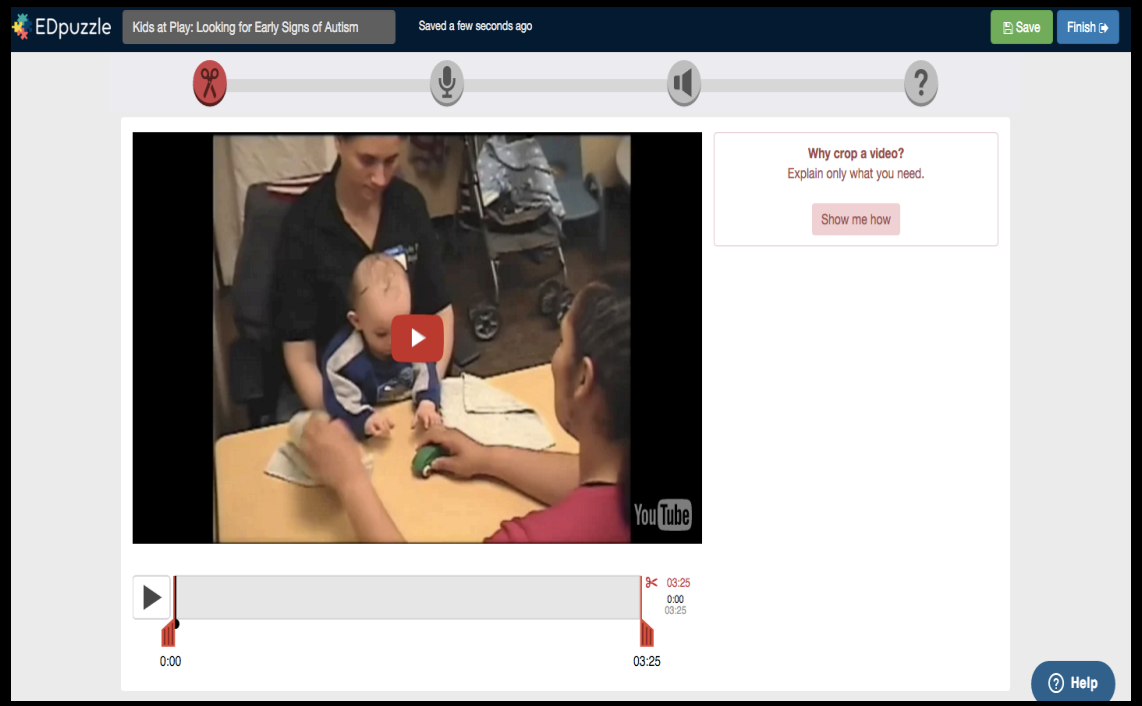
FLORIDA INTERNATIONAL'S FULLY ONLINE PROGRAM

FIU | Arts, Sciences & Education
FLORIDA INTERNATIONAL UNIVERSITY

- The Bachelor of Science in Early Childhood Development Track focuses on understanding of learning and development during the early childhood years. Students will learn about the cognitive, language, and social/emotional development of young children within the context of family and community studies. Students will also learn about general and early education practices and curricula.

EDPUZZLE

- Program designed to assist teachers in creating video lessons
- Features:
  - Voiceover
  - Crop/trim video
  - Audio notes
  - Quizzes
- We made our students the teachers and had them do a verbal video analysis using Edpuzzle



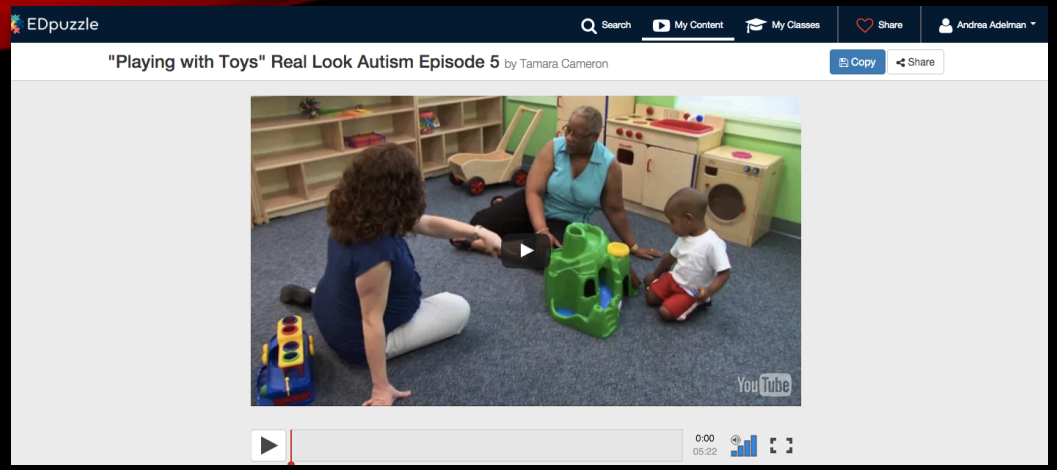
COURSES

EEX 3070: Teaching Students with Exceptionalities in Inclusive Settings

LAE4405: Children's Literature

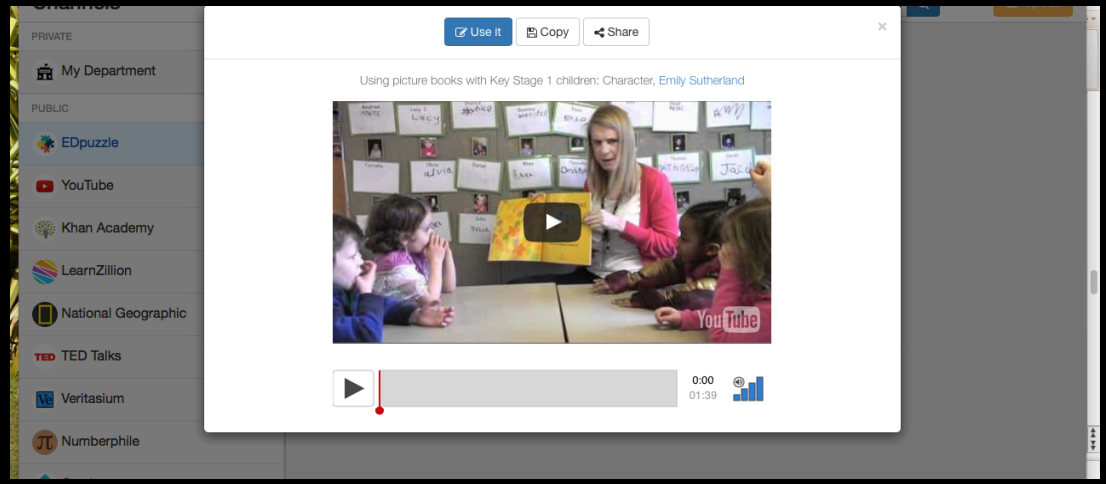
- Students need the opportunity to apply the content they have acquired through experiential learning and field work.

ASSIGNMENTS



Disability Expert

Students were asked to view and analyze two videos; one video depicted a child with Autism Spectrum Disorder and the other video observed a child with Attention Deficit Hyperactivity Disorder. Students developed a verbal video analysis using Edpuzzle and then completed a video analysis chart discussing interpretations, conclusions, and implications.



Children's Lit Expert

Students were asked to view and analyze three videos; one video depicted a teacher scaffolding children's thinking through dialogic reading and read-aloud techniques. The other video observed a teacher integrating children's literature across the curriculum including multicultural components. The third video depicted a teacher implementing research-based instructional practices using writing to develop students' comprehension of text. Students developed a verbal video analysis using Edpuzzle and then a video analysis chart discussing interpretations, conclusions, and implications.

SEE/THINK/WONDER ROUTINE

- What do you see?
- What do you think?
- What do you wonder?

BENEFITS OF TARGETED VIDEO ANALYSIS

Seeing

- More beneficial than live observation
- Familiarity
- Discernment
- Targeting 'noticing"

Engaging

- Sparking interest
- Innovative approach
- Observing from a safe distance
- Worthwhile and useful

Schwartz and Hartman (2007)

Doing

- Viewed as a task
- promoted guidance and depth
- increased skills
- build knowledge and performance

Saying

- Promotes reflection, recall, and explanation
- Ongoing evaluation rooted in video data

LIMITATIONS

- It's a virtual experience.
- Undergraduate students do not tend to reflect deeply enough enough to grow form this process without being guided.
- What would you anticipate?

IMPLICATIONS

- New face for online education
- Must integrate innovative and engaging methods to retain students, facilitate learning
- Allowing students to apply the content they are learning in a real life virtual situation.
- This is close to what students would experience in a real classroom setting.

ANY QUESTIONS?

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