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Teaching With Technology in a 2nd Grade Classroom

Karin Unruh
Illinois Wesleyan University

Leah Nillas, Faculty Advisor
Illinois Wesleyan University

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TEACHING WITH TECHNOLOGY IN A 2ND GRADE CLASSROOM

Karin Unruh and Leah Nillas*

Educational Studies, Illinois Wesleyan University

Research Question

- How does technology help students learn concepts and skills?

Literature Review

- Zevenbergen and Lerman (2008) found that students were more engaged in lessons involving the use of interactive whiteboard (IWB).
- Students were motivated to learn when the information was presented using an IWB because it supported all learning styles (Preston & Mowbray, 2008).

Methodology

- 22 second grade students
- Student assessment work, teacher journals, and findings from research studies were collected during student teaching.
- Technological, Pedagogical, and Content Knowledge (TPACK, Mishra and Koehler, 2006) framework was used to analyze the qualitative data.

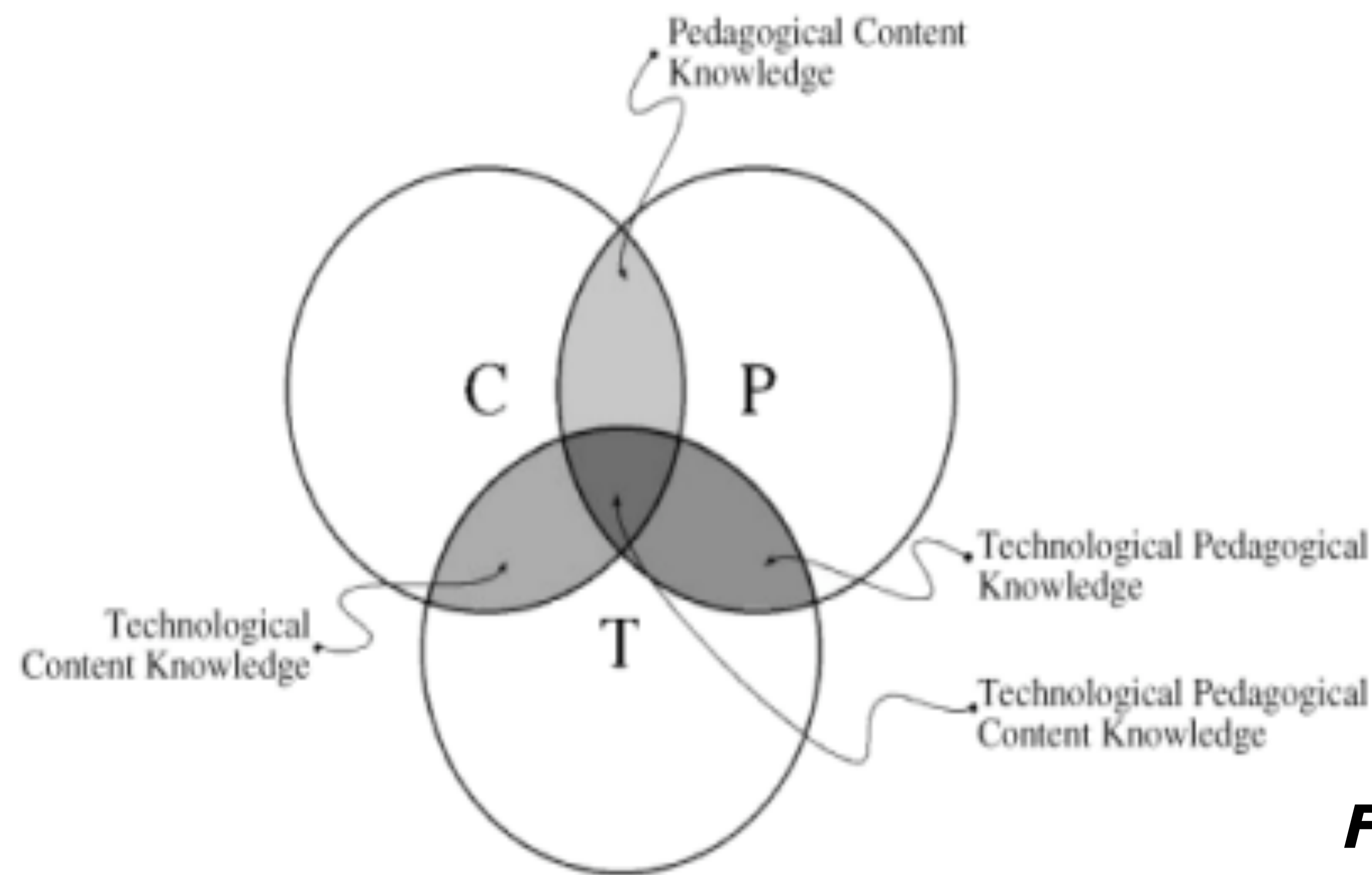


Figure 1. TPACK framework analyzes the relationship between technology, pedagogy, and content knowledge (TPACK, Mishra and Koehler, 2006)

Results and Data Analysis

- Students learned the concepts and skills when interactive whiteboards were used in the lesson as demonstrated through daily quick checks.
- Analysis of teacher journals showed that students were engaged and motivated which can be shown through their constant eye contact and attention.
- More students volunteered to answer questions when they were able to complete the mathematics problems on the interactive whiteboard.
- The technology and content knowledge were related as shown through student work and teacher journals.



Figure 2. Using an interactive whiteboard to teach tens and ones through an interactive story.

Conclusion

- Interactive whiteboards promote student learning of content and skills.
- Student motivation and engagement is increased when interactive whiteboards are used.
- Findings from this research are specific to only one classroom.
- In the future, I would like to examine more about students' motivation and engagement involving the use of interactive whiteboards in learning.