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Research Article

THE ROLE OF THE TRANSFORMATIONAL APPROACH IN DEVELOPING GRAPHIC COMPETENCE IN FUTURE TECHNOLOGY EDUCATION **TEACHERS**

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ABSTRACT

Graphic competence is a crucial component of a technology education teacher's professional skills. This article explores the transformational approach as an effective methodology for fostering graphic competence among future educators. By integrating theoretical perspectives and empirical findings, the article highlights the significance of this approach in developing visualization, design, and interpretation skills. The inclusion of illustrations, tables, and practical recommendations provides a comprehensive understanding of the subject.

KEYWORDS

Transformational approach, graphic competence, technology education, teacher training, visualization skills, design thinking, contextual learning, active learning, iterative processes, educational methodologies.

INTRODUCTION

Graphic competence is integral to teaching enabling educators to effectively technology, communicate ideas, processes, and designs. In an era marked by rapid technological advancement, the ability to visualize and interpret graphic information is vital for educators. The transformational approach, emphasizes active learning, which contextual understanding, and iterative improvement, has emerged as a promising framework for cultivating these competencies.

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This article aims to analyze the role of the transformational approach in the development of graphic competence, with a particular focus on its application in training future technology education teachers.

METHODOLOGY

mixed-methods approach was employed, incorporating qualitative and quantitative data collection techniques. The study involved:

- Literature Review: Analyzing existing studies 1. competence and transformational graphic pedagogy.
- Surveys and Interviews: Collecting data from teacher training programs.

Experimental Design: **Implementing** 3. transformational teaching techniques in selected cohorts and evaluating their outcomes.

RESULTS AND DISCUSSION

1. Components of Graphic Competence

Graphic competence encompasses several components:

- Visualization Skills: The ability to create and interpret diagrams, sketches, and technical drawings.
- Design Thinking: Applying creative and analytical processes to solve design problems.
- Interpretation: Understanding and explaining graphical representations in educational contexts.

Table 1 **Key Components of Graphic Competence**

Nº	Component	BUSHIND escription CES	
1.	Visualization	Creating and understanding graphics	
2.	Design Thinking	Problem-solving through visual	
	Design Timiking	methods	
3.	Interpretation	Explaining graphical information	

2. The Transformational Approach

The transformational approach is characterized by the following principles:

- Active Learning: Engaging students through hands-on activities, such as sketching and modeling.
- Contextual Learning: Relating graphic tasks to real-world scenarios.
- Iterative Processes: Encouraging continuous refinement of skills through feedback.

3. Impact of the Transformational Approach

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An experimental cohort of 50 future teachers was trained using the transformational approach. The results were compared with a control group using traditional methods. Key findings include:

- A 25% improvement in visualization skills.
- Enhanced ability to contextualize and explain graphic tasks.
- Greater confidence in applying design thinking.

Table 2 **Comparative Results of the Experimental Study**

No	Metric	Control Group	Experimental Group
1.	Visualization Improvement	60%	85%
2.	Contextual Understanding	55%	80%
3.	Design Thinking Scores	65%	90% SERVICES

CONCLUSION

The transformational approach offers a robust framework for developing graphic competence in future technology education teachers. By fostering active learning, contextual understanding, and iterative improvement, this methodology equips educators with the skills necessary to navigate and teach complex graphic information effectively.

Future research should explore the long-term impacts of this approach on professional practice and investigate its adaptability to other educational domains.

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