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ОБЩИЕ ВОПРОСЫ ОБУЧЕНИЯ

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Aytan Vidadi Suleymanova
English teacher at ADA School at Azerbaijan Diplomatic Academy
doctoral student in the program of doctor of
philosophy of Azerbaijan State Pedagogical University
https://orcid.org/0009-0003-9064-6859
E-mail:asuleymanova@ada.edu.az
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FROM PASSIVE TO PARTICIPATORY: HOW INTERACTIVE APPROACHES ARE TRANSFORMING EDUCATION AND PARTICIPATION

Aytən Vidadi qızı Süleymanova
Azərbaycan Diplomatik Akademiyası
Məktəbinin ingilis dili müəllimi,
Azərbaycan Dövlət Pedaqoji Universitetinin
fəlsəfə doktoru proqramı üzrə doktorantı

PASSİVDƏN FƏAL İŞTİRAKA: İNTERAKTİV YANAŞMALAR TƏHSİLİ VƏ İŞTİRAKI NECƏ DƏYİŞDİRİR

Айтен Видади гызы Сулейманова
преподаватель английского языка школы
Азербайджанской Дипломатической Академии,
докторант по программе доктора философии
Азербайджанского Государственного Педагогического Университета

ОТ ПАССИВНОГО К АКТИВНОМУ УЧАСТИЮ: КАК ИНТЕРАКТИВНЫЕ ПОДХОДЫ ТРАНСФОРМИРУЮТ ОБРАЗОВАНИЕ И УЧАСТИЕ

Abstract. The transition from passive, lecture-centered instruction to interactive, participatory approaches that promote deeper learning and increased engagement in a variety of educational contexts is examined in this article. The study summarizes the evidence for active learning, peer instruction, project-based learning, flipped classrooms, and technology-mediated interactive platforms, drawing on both contemporary empirical meta-analyses and traditional learning theories. Implications for equity, assessment, and future research are discussed, along with helpful suggestions for educators and legislators.
Key words: *interactive methods, active learning, student-centred classroom*

Xülasə. Bu məqalədə passiv, mühazirə-mərkəzli tədrisdən interaktiv, iştirakçı yanaşmalara keçid, yəni müxtəlif təhsil kontekstlərində daha dərsindən öyrənmə və artan iştirakın təşviqi araşdırılır. Tədqiqat həm müasir empirik meta-analizlərə, həm də ənənəvi öyrənmə nəzəriyyələrinə əsaslanaraq aktiv öyrənmə, həmyaşıd təlimi, layihə əsaslı öyrənmə və texnologiya vasitəsilə həyata keçirilən interaktiv platformalar üzrə sübutları ümumiləşdirir. Ədalətlilik, qiymətləndirmə və gələcək tədqiqatlara dair nəticələr müzakirə edilir, həmçinin müəllimlər və qanunvericilər üçün faydalı tövsiyələr təqdim olunur.
Açar sözlər: *interaktiv metodlar, aktiv öyrənmə, tələbə-mərkəzli sinif*

Аннотация. В данной статье рассматривается переход от пассивного обучения, ориентированного на лекции, к интерактивным подходам, основанным на широком участии, которые способствуют более глубокому обучению и более активному вовлечению в различные образовательные

контексты. В исследовании обобщены данные об активном обучении, обучении со стороны сверстников, проектном обучении, сменных аудиториях и интерактивных платформах с использованием технологий, основанные как на современных эмпирических метаанализах, так и на традиционных теориях обучения. Обсуждаются последствия для справедливости, оценки и будущих исследований, а также полезные предложения для преподавателей и законодателей.

Ключевые слова: *интерактивные методы, активное обучение, класс, ориентированный на учащихся*

Introduction

Formal education has mainly relied on lectures and one-way knowledge transfer for many years. Though it emphasizes information delivery efficiency, this method – often referred to as the "sage on the stage" model – tends to present students as passive recipients rather than engaged participants. Even though lectures are still effective at rapidly presenting vast amounts of information, particularly in settings with high student enrollment in higher education, they frequently restrict opportunities for discussion, introspection, and practical application. As a result, students may be able to retain information in the short term but have trouble understanding it over the long term, solving problems, and applying it to new situations.

Decades of research have consistently shown that students learn better when they actively construct knowledge rather than merely absorbing it (Chickering & Gamson, 1987). Deep learning necessitates processes like retrieval, elaboration, and application, all of which are more likely to happen when students engage with the content, peers, and teachers in meaningful ways, according to insights from the learning sciences and cognitive psychology. On the other hand, passive listening frequently results in superficial memorization that quickly wanes.

Teachers at the K–12 and higher education levels have responded to these findings by embracing interactive teaching strategies that aim to change the classroom dynamic from one that emphasizes teacher-centered instruction to one that emphasizes learner-centered inquiry. For instance, peer instruction turns lectures into cooperative discussions by promoting conceptual inquiry and student-to-student explanation. Project-based learning places academic material in the context of real-world, authentic problems that encourage investigation, innovation, and ongoing participation. By shifting direct content delivery – through readings, videos, or digital modules – outside of class and saving in-person sessions for discussion, problem-solving, and applied learning, flipped classrooms reorganize instructional time.

The potential for interactive approaches has been further increased by the development of educational technologies. Teachers can interact with students in real time, customize learning experiences, and increase participation outside of the traditional classroom with the help of tools like polling platforms, online collaborative workspaces, and adaptive learning systems. These developments offer rich data on student learning that can guide instructional modifications in addition to expanding interaction opportunities.

When taken as a whole, these advancements signify a paradigm change in education. The participatory model places more emphasis on peer collaboration, learner agency, and co-construction of understanding than it does on passively absorbing transmitted knowledge. Thus, this essay examines the theoretical underpinnings of participatory learning, summarizes the empirical data in favor of interactive techniques, and looks at real-world examples that show how these methods are transforming student engagement and academic results in a variety of educational settings.

Theortecial foundations. Why participation matters

Interactive learning is grounded in several well-established learning theories that emphasize the centrality of active participation, social engagement, and authentic experiences in knowledge construction. At its core, constructivist theory argues that learners are not blank slates but active agents who build new knowledge on the foundation of prior experiences and understandings. Rather than passively receiving information, students interpret, question, and reorganize knowledge in ways that make sense within their personal and cultural contexts.

This viewpoint is furthered by Vygotsky's social constructivism theory, which emphasizes how learning is fundamentally social. According to his theory, the zone of proximal development

(ZPD) is the area between what a student can do on their own and what they can do with help from a teacher or more experienced peer (Vygotsky, 1978). By allowing students to co-construct understanding, scaffold each other's progress, and gradually internalize complex concepts through discussion and shared activity, interactive approaches like peer instruction and collaborative projects directly leverage the ZPD.

A complementary framework is offered by Kolb's experiential learning cycle, which positions learning as an iterative process with four interrelated stages: active experimentation, abstract conceptualization, reflective observation, and concrete experience (Kolb, 1984). This cycle is well suited to participatory approaches like simulations, problem-based learning, and experiential projects, which give students the chance to work on real-world projects, evaluate their performance, develop theoretical understandings, and put their theories into practice. Students gain transferable skills and strengthen their knowledge through this cyclical engagement.

These concepts are operationalized into workable tactics in Chickering and Gamson's seminal "Seven Principles for Good Practice in Undergraduate Education" (1987). Student-teacher interaction, student collaboration, active learning, timely feedback, staying on task, having high standards, and respecting different learning styles are all emphasized in the principles. These guidelines emphasize that effective teaching requires quality engagement, not just content coverage, and anticipate many aspects of today's interactive learning environments, such as cooperative group projects and technology-supported formative assessments.

When combined, these theoretical frameworks reveal a common understanding: learning is most effective when it is social, contextualized, and active. Participatory approaches offer circumstances that are consistent with decades of theoretical and empirical research by incorporating real-world tasks, organized teamwork, opportunities for reflection, and prompt feedback. Interactive methods encourage deeper comprehension, critical thinking, and long-term knowledge transfer as opposed to passive listening, which frequently leads to shallow retention.

Empirical evidence: Gains from Interactive methods

Strong empirical support for interactive approaches is provided by experimental and meta-analytic research. When compared to traditional lecturing, active-learning strategies dramatically increase student performance and lower failure rates, according to Freeman et al.'s (2014) seminal meta-analysis of STEM education. Similarly, structured conceptual questioning and peer discussion improve conceptual understanding and problem-solving abilities, according to decades of research on peer instruction, which was led by Eric Mazur (Mazur, 1997; Crouch & Mazur, 2001). While many meta-analyses of flipped classroom implementations show small-to-moderate positive effects on learning outcomes, with heterogeneity by discipline and implementation quality, project-based learning (PBL) has been linked to improved academic achievement and affective outcomes. According to recent systematic reviews, when properly incorporated into instruction, technology-mediated interactive platforms can improve student engagement and support pedagogical strategies.

How interactice methods improve learning

Interactive approaches yield superior results for a number of reasons:

1. Cognitive engagement and retrieval practice: Memory and comprehension are strengthened by activities that ask students to retrieve, apply, or explain knowledge (such as clicker questions and group problem-solving).

2. Instant feedback: Interactive environments give students access to more rapid corrective feedback from peers, teachers, or automated systems, enabling them to clear up misconceptions before they become entrenched.

3. Social learning and accountability: Through accountability mechanisms (e.g., graded group work, peer assessment), structured peer interaction enhances participation and leverages the social construction of knowledge.

4. Authentic contexts and transfer: PBL and experiential activities place learning in practical tasks that encourage motivation and transfer.

5. Metacognitive development: As in Kolb's model, reflection and iterative cycles assist students in keeping track of their own learning and gaining self-control.

Interactive methods in practice

The following are powerful interactive strategies that teachers can use in a variety of settings:

Peer Instruction: Pose conceptual questions in class, allow students to commit to a response, have a discussion with their peers, and then cast another vote. This cycle exposes misunderstandings and makes use of peer justifications (Mazur, 1997; Crouch & Mazur, 2001).

PBL: Create semester-long projects that call for research, teamwork, and public outputs; support them with formative feedback, milestones, and rubrics (Wenderoth,2014).

Flipped Classroom: Use class time for active problem-solving and application while moving content delivery (short films, readings) outside of the classroom. Depending on the quality of the design, the evidence reveals a range of generally positive effects.

Technology-Enhanced Interaction: To improve interaction, customize practice, and gather formative data to guide instruction, use polling tools, collaborative documents, simulation platforms, and intelligent tutoring systems (Brugliera et al., 2024).

Gamification and Serious Games: Although effect sizes vary and careful design is necessary, game elements (levels, feedback, and narrative) can increase motivation and time-on-task when they are in line with learning objectives and assessment.

Design Concepts and Evaluation

Careful design is necessary for successful implementation. Aligning activities with learning objectives, ensuring equitable participation, developing clear assessment rubrics, scaffolding complexity, and promptly providing formative feedback are all important concepts. Assessment should include transferable skills (communication, problem-solving, and teamwork) in addition to content mastery. It is effective to combine frequent, low-stakes formative assessments (quizzes, peer review) with real summative evaluations (project deliverables, oral defenses). To avoid common pitfalls, instructors should also focus on workload balance and provide clear instruction in group processes.

Access, Equity, and Difficulties

Interactive techniques are not a magic bullet. Scale (large lecture halls), instructor preparation time, gaps in technology access, and possible disparities in group work participation are some of the challenges. Numerous hazards can be reduced with careful scaffolding and inclusive practices, such as distinct role assignments, varied group formation techniques, universal design for learning (UDL) accommodations, and low-tech substitutes. Additionally, in order for teachers to create and maintain excellent interactive learning experiences, they need institutional support and professional development.

Policy and Professional Development Implications

Policymakers and institutional leaders should incentivize evidence-based interactive teaching through faculty development, incentive structures (teaching awards, release time), and infrastructure investments (flexible classrooms, digital platforms). Assessment systems and accreditation criteria that value deeper learning and transferable skills will encourage broader adoption. Finally, research-practice partnerships can help scale promising models while preserving responsiveness to local contexts.

Conclusion

A significant reorientation of educational practice is represented by the transition from passive to participatory learning. When used carefully, interactive approaches improve learning, engagement, and equity, according to theoretical foundations and mounting empirical data. Scaling quality implementation, closing access gaps, and coordinating assessment and policy to promote more in-depth, real-world learning are the challenges that lie ahead. Teachers who use participatory methods will develop their students' ability to think, work together, and act in complex real-world situations in addition to imparting knowledge.

Relevance of the problem. The comprehensive development of students, their cognitive activity, and their evolving roles alongside teachers in the interactive learning process make this topic particularly relevant.

Scientific novelty of the problem. The article presents new technologies and methods of their application that influence students' development and the formation of their social competencies.

Practical significance of the problem. The proposed ideas and methods can be effectively utilized by educators in their professional practices.

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