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THE EFFECTIVENESS OF USING ANIMATION DURING THE LESSONS

Scientific Supervisor: **Kurbonova Mekhrangiz Khurshedovna**Teacher of Samarkand State Institute of Foreign Languages

E-mail: mexa.kurbanova@gmail.com

Madaminova Diyorakhon Avazbek kizi

Samarkand State Institute of Foreign Languages Evening Department Faculty, 5th-year Student, Samarkand, Uzbekistan E-mail: diyoramadaminova59@gmail.com

Phone: +998 88 733 57 37

Annotation: This study explores the effectiveness of using animation as a teaching tool in primary school lessons. It examines how animated content enhances student engagement, comprehension, and motivation by combining visual and auditory elements. The research highlights methodological approaches for integrating animation into lessons, including structured pre-, while-, and post-activity stages, interactive exercises, and creative student tasks. Additionally, the study discusses potential challenges such as limited resources, preparation time, and cognitive overload, while emphasizing future perspectives involving emerging educational technologies. The findings suggest that animation is a powerful pedagogical tool that can transform traditional lessons into dynamic, interactive, and learner-centered experiences, fostering deeper understanding, creativity, and positive learning attitudes.

Keywords: Animation, Lesson Effectiveness, Primary Education, Student Engagement, Visual Learning, Interactive Learning, Motivation, Teaching Methods, Educational Technology, Classroom Innovation

I. Introduction: As President Shavkat Mirziyoyev stated, "In order to improve the quality of education, we need to fundamentally renew teaching methods and widely implement modern and interactive approaches" [1; 2-p.]. Inspired by these words of Shavkat Mirziyoyev and the ongoing educational reforms, many educational institutions are now being equipped with modern technologies. As a result, teaching methods are also being transformed, and innovative approaches such as the use of animations in the learning process are being actively studied and implemented. In the modern educational environment, effective teaching strategies increasingly rely on digital technologies to support student learning. Among these technologies, animation has emerged as one of the most powerful tools for enhancing classroom instruction. Animation combines movement, color, sound, and visuals, making it an ideal medium for presenting both simple and complex educational content. As teaching becomes more learner-centered, educators seek new ways to make lessons more interactive, engaging, and meaningful. Animation plays a crucial role in achieving these goals, as it appeals to students' senses and supports multiple forms of information processing.



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Many researchers emphasize that students learn more effectively when instruction includes multimedia features such as animated illustrations, dynamic diagrams, and visual explanations. These elements not only increase students' interest in the learning material but also promote deeper levels of understanding. For example, abstract scientific or mathematical concepts that are difficult to imagine can be represented visually through animations, making them more accessible for students of different ages and backgrounds. [5] Additionally, animation provides an enjoyable learning environment that reduces anxiety, increases motivation, and improves students' willingness to participate in lessons. Therefore, studying the effectiveness of animation in the classroom is important for understanding its impact on modern educational practices.

II. Theoretical Background: Simple flipbooks and hand-drawn cartoons marked the beginning of educational animation in the early 20th century. These animated educational resources became more sophisticated as technology progressed. Children were first taught through animation in the 1960s thanks to television shows like Sesame Street. An important tipping point was the 1990s digital revolution. More intricate and dynamic animations were made possible by computer-generated images. Animated content was added to e-learning platforms, increasing accessibility and engagement.[5]

Moreover, Attention and Motivation Theories highlight that visually appealing and dynamic materials capture learners' attention more effectively than static content. Animation stimulates curiosity and maintains engagement, which is particularly important for young learners with limited attention spans. By making lessons enjoyable and interactive, animation enhances intrinsic motivation and promotes positive attitudes toward learning.

These days, educational animations can be as basic as 2D drawings or as complex as 3D worlds. From elementary schools to universities and corporate training programs, they are utilized at every educational level. From a pedagogical perspective, animations support structured lesson design through pre-, while-, and post-activity stages. In the pre-activity stage, key concepts and vocabulary are introduced. During the while-activity stage, students observe, analyze, and interpret animated sequences. In the post-activity stage, learners consolidate knowledge through discussion, problem-solving, or creative projects, reinforcing understanding and fostering higher-order thinking skills.[6; 66-p.]

III. Methodological Approaches to Using Animation: Using animation in the classroom requires careful planning and methodological considerations to ensure that it effectively enhances learning outcomes. Teachers can apply several strategies to integrate animation into lessons in a meaningful way. At the beginning of a lesson, animations can be used to introduce new concepts, topics, or vocabulary. Short animated clips capture students' attention, activate prior knowledge, and prepare learners for more detailed explanations. For example, in a science lesson, an animation illustrating the process of photosynthesis allows students to visualize key stages before engaging in discussion or problem-solving activities.

The integration of animation into classroom instruction has been shown to enhance student engagement, comprehension, and retention. According to Karimova, visual and dynamic materials, such as animations, help young learners grasp abstract concepts more easily by providing concrete representations of ideas [7; 167-p.]. In this regard, animations can simplify complex topics and make learning more accessible, especially for visual and kinesthetic learners.



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Qodirova emphasizes that lessons become more effective when instructional content is interactive and visually appealing [7; 169-p.]. Animations attract attention, maintain focus, and support memory by combining visual and auditory stimuli. Short, well-structured animated segments ensure that learners process information without cognitive overload, which is crucial for primary school students whose attention spans are limited.

IV. Educational Impact and Practical Results: Joʻrayeva highlights that the use of multimedia technologies, including cartoons and educational animations, enhances motivation and promotes active participation [4; 270-p.]. Students are more likely to engage with lessons when learning feels playful and visually stimulating. Moreover, animations allow teachers to demonstrate processes or sequences that are otherwise difficult to show in traditional teaching, such as scientific experiments, historical events, or grammatical structures.

From a methodological perspective, Harmer's three-stage model can be adapted to lessons using animation [3; 480-p.]. During the pre-animation stage, teachers prepare learners by introducing key vocabulary, concepts, and visuals. The while-animation stage involves observing the animated sequence, identifying main ideas, and completing related tasks such as matching, labeling, or sequencing. In the post-animation stage, students can discuss, summarize, or create their own short animations, which consolidates understanding and encourages creative output.

Usmanova and Alimjonova underline that interactivity remains a critical factor in effective learning [2; 71-p.; 7; -180p.]. When students respond to animated content through games, quizzes, or group activities, they engage more deeply and retain information longer. Similarly, Brown asserts that learning with animation is an active process, requiring cognitive engagement rather than passive observation [6; 70 p].

In the Uzbek context, Raxmonova notes that animation-based lessons should consider students' cultural background and psychological comfort [7; 175-p.]. Using familiar contexts and relatable characters in animations ensures better comprehension and minimizes anxiety. Field further argues that effective instruction combines top-down (understanding meaning) and bottom-up (processing visual and auditory details) approaches [3; 480-p.]. Animations naturally support both strategies by linking visual cues with conceptual understanding.

V. Challenges and Future Perspectives: While animation offers numerous benefits in enhancing lesson effectiveness, its implementation in classrooms also presents several challenges. Karimova points out that the lack of access to technological resources, such as computers, projectors, or reliable internet, can limit the use of animated materials, especially in rural or underfunded schools [6; 72-p.]. In addition, Qodirova emphasizes that excessive use of animations without pedagogical guidance may distract students rather than aid learning [7; 170-p.]. Teachers need to carefully balance animated content with interactive and reflective activities to ensure meaningful engagement.

Another challenge is the preparation time and skill required to create or select high-quality animations. Joʻrayeva notes that many teachers lack the technical knowledge to develop custom animations tailored to their lesson objectives [4; 255-p.]. Reliance on pre-made content may not always align with the curriculum or students' specific needs.

From a cognitive perspective, Sayfullayeva highlights that overloading lessons with fast-paced or overly complex animations may overwhelm young learners, reducing comprehension and retention [4; 260-p.]. Therefore, careful attention to the length, pacing, and clarity of animated segments is essential for maintaining cognitive engagement.



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Despite these challenges, the future of animation in education appears promising.

Advances in educational technology, including interactive simulations, virtual reality, and AI-driven animated tools, provide new opportunities for personalized and adaptive learning [4; 270-p.]. Teachers can design animations that respond to students' inputs, offering instant feedback and promoting active learning.

Furthermore, incorporating student-generated animations as part of classroom activities fosters creativity, collaboration, and deeper understanding of content [4; 274-p.]. By creating their own animations, learners consolidate knowledge and develop skills in digital literacy, critical thinking, and communication.

VI. Conclusion: The use of animation in lessons has proven to be a highly effective tool for enhancing student engagement, comprehension, and motivation. Animations combine visual and auditory elements, making abstract concepts easier to understand and helping students retain information more effectively. For young learners, story-based and visually appealing content maintains attention, fosters curiosity, and makes learning enjoyable. Methodologically, animation supports structured teaching approaches by allowing teachers to introduce key concepts, guide focused observation, and consolidate learning through interactive activities. Students benefit not only from observing animated content but also from engaging with it through discussions, creative tasks, and collaborative projects, which reinforce understanding and encourage active participation. Animation also enhances the emotional and motivational aspects of learning. It reduces anxiety, encourages exploration, and stimulates interest, creating a positive and supportive classroom environment. When students are motivated and engaged, they are more likely to participate actively and achieve better learning outcomes.

Despite potential challenges, such as the need for resources, preparation, and careful planning, animation offers considerable opportunities for innovation in education. It can transform lessons from static, teacher-centered sessions into dynamic, learner-centered experiences. By thoughtfully integrating animation into teaching, educators can make learning more meaningful, interactive, and enjoyable, while fostering creativity, critical thinking, and digital literacy among students.

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