



The Importance of Incorporation in Improving the Quality of Education

Jo'rayeva Dilnoz Raxmidinovna

Bukhara State Pedagogical Institute, Department of "Primary Education",
Uzbekistan

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Abstract: This article highlights the role of the incorporation approach in enhancing the quality of education. Through interdisciplinary integration, students develop skills in creative thinking, problem-solving, and the application of practical knowledge. Teaching technology in primary grades in connection with other subjects increases educational effectiveness and student motivation. The article discusses the advantages of incorporation based on modern pedagogical approaches and scientific-practical experiences.

Keywords: Incorporation, integration, technology subject, primary education, interdisciplinary connection, pedagogical approach, quality of education.

Introduction: In today's rapidly developing digital era, the quality and effectiveness of education have become highly relevant topics. In particular, the incorporation approach based on interdisciplinary integration holds special significance in developing students' practical skills and competencies to apply knowledge in real-life situations. The modern education system is aimed at shaping students' abilities in independent thinking, problem-solving, and applying practical knowledge. Within this process, the importance of the incorporation approach, grounded in interdisciplinary integration, is invaluable. Specifically, integrating the subject of technology with other disciplines in primary school enables a deeper and more meaningful educational experience for students.

The term "incorporation" originates from the Latin word "incorporatio", which means "addition," "integration," or "combination." In the field of education, this concept refers to the unification of knowledge, skills, and competencies acquired across different subjects into a single didactic activity, meaning it is taught in an

interconnected way. This method helps systematize students' knowledge, deepens their understanding, and creates a foundation for the practical application of what they have learned.

The incorporation approach helps students integrate theoretical knowledge with practical activities and develop the skills necessary to apply this knowledge in various real-life situations.

This approach supports interdisciplinary connections, fosters creative and critical thinking, provides practice-oriented learning, guides career orientation, and contributes to enhancing the effectiveness of lessons.

The principles of interdisciplinary integration are widely applied in textbooks developed based on the national curriculum. In primary education, integrating the subject of technology with other disciplines lays the foundation for the student's all-round development, readiness for life, and formation as a creative individual.

Key principles of the incorporation approach:

1. Holism – knowledge from different subjects is presented in an interconnected way.
2. Content orientation – materials in textbooks are selected based on real-life relevance.
3. Activity and creativity – students' independent thinking and creative approaches are encouraged.
4. Practical orientation – knowledge is applied to everyday life situations.

Types of Incorporation and Their Significance:

Horizontal incorporation: Establishing connections between subjects taught at the same grade level (e.g., technology and mathematics).

Vertical incorporation: Ensuring content continuity and progression across subjects throughout the academic year.

Project-based learning: Solving problems using knowledge from various subjects.

STEAM approach: Integrating Art, Science, Technology, Engineering, and Mathematics to foster holistic learning.

The Role of Incorporation in Primary Education

When technology lessons in primary school are integrated with other subjects such as mathematics, visual arts, native language, or environmental studies, students' scope of knowledge expands. They are encouraged to generate new ideas based on what they have learned, ask questions, and justify their decisions.

Scientific and Practical Foundations

For example, Birmingham City University (UK) developed a STEAM training program for primary school teachers, incorporating 3D printing and robotics projects to achieve interdisciplinary integration. Similarly, in

Vietnam, STEM education is being implemented through the design of technical toys, helping students develop creative thinking and problem-solving skills.

Key Advantages in Improving the Quality of Education:

1. Ensures Interdisciplinary Connectivity

Incorporation helps students perceive knowledge holistically by integrating content from multiple subjects. For example, using concepts from geometry, art, ecology, and computer science in technology lessons broadens students' worldview.

2. Develops Creative and Critical Thinking

Integrating subjects often involves working through problem-based scenarios, which enhances students' ability to think independently, find non-standard solutions, and approach tasks with creativity.

3. Provides Practice-Oriented Knowledge

Incorporation lessons are closely aligned with real-life activities. Students not only acquire theoretical knowledge but also learn to apply it in daily life, enhancing practical competence.

4. Supports Career Orientation

Through technology lessons that introduce various professions and their fields of activity, students begin to approach career choices consciously and with genuine interest.

5. Increases Learning Efficiency

The incorporation approach makes lessons visual, meaningful, and engaging for students. This boosts their classroom engagement and ensures higher effectiveness in the learning process.

Scientific and Practical Significance

The newly developed textbooks based on the National Curriculum widely apply the principles of interdisciplinary integration. In particular, the 1st to 4th grade technology textbooks are designed to consolidate students' knowledge, prepare them for practical activities, and enhance their creative potential.

A teacher applying the incorporation approach in their lessons:

- Encourages the student to explore the topic more comprehensively;
- Demonstrates ways to apply the knowledge to real-life situations;
- Utilizes modern methods and technologies in the teaching process.

The significance of incorporation in education lies in the fact that modern pedagogical approaches are constantly evolving in response to contemporary demands. Particularly, in national curricula designed based on a

competency-based approach, interdisciplinary connections—namely, the incorporation approach—play a crucial role. This is because today's learner must not only acquire theoretical knowledge but also be equipped with practical skills applicable to real-life situations.

Educational methodologies today are continuously updated to meet the needs of the modern world. Especially within competency-based curricula, interdisciplinary integration, that is, the incorporation approach, holds a special place. The modern student must not only gain knowledge, but also develop competencies that allow them to apply what they have learned in real-life scenarios.

Incorporation means delivering education in a holistic and non-fragmented manner. Through this approach, interdisciplinary connections are established, enabling students to apply integrated knowledge in real-life contexts. Furthermore, it helps learners develop skills to solve complex problems based on knowledge acquired from various subjects. The incorporative approach fosters the development of modern competencies in students, such as critical and creative thinking, initiative, and the ability to work collaboratively. This method enhances the effectiveness of education by bringing theoretical knowledge closer to practical application. In global educational practice—particularly in countries like Finland, Canada, and Singapore—the incorporative approach has become one of the core strategies in school education. Through interdisciplinary projects and STEAM (Science, Technology, Engineering, Arts, and Mathematics) lessons, students are provided with opportunities to engage in multifaceted thinking and practice-oriented learning. In summary, the incorporative approach is a powerful tool in improving the quality of education, increasing classroom effectiveness, and shaping students into independent thinkers who are prepared for real-life challenges.

Incorporation – Integrated Education

Incorporation means delivering education in a holistic, non-fragmented way. Through this approach:

- Interdisciplinary connections are ensured;
- Students learn to apply integrated knowledge in real-life situations;
- Skills for solving problem-based tasks using knowledge from various subjects are developed.

The Role of Incorporation in Developing Students' Thinking

This approach helps students develop:

- Critical and creative thinking;
- Initiative and independent decision-making;

- The ability to apply their knowledge to real-life issues.

Improving Lesson Effectiveness

Lessons in technology combined with other subjects:

- Become meaningful and engaging for students;
- Increase their motivation;
- Enhance the practical relevance of the lessons;
- Enrich the learning process with visual methods and ICT tools.

Global Experience and Prospects

According to global experience, especially:

- In countries like Finland, Canada, and Singapore, incorporation is one of the main directions in school education;
- In these countries, interdisciplinary projects and STEAM lessons help students develop multidisciplinary thinking and practice-oriented learning.

CONCLUSION

In primary education, the incorporation approach is an essential tool for deepening students' knowledge and skills and preparing them for real life. This approach strengthens interdisciplinary connections and fosters practical and creative thinking in students. Broad implementation of incorporation in education is one of the key factors in preparing modern learners for life. Incorporation today is a crucial means of improving the quality and content of education. Integrating technology with other subjects in primary grades lays the foundation for comprehensive development, life readiness, and creative personality formation in students. Scientific research and practical experience confirm the high effectiveness of the incorporation approach in the educational process.

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