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MANAGING THE PROCESS OF ASSESSING STUDENT KNOWLEDGE IN PRIMARY EDUCATION

Nurullayeva Ugulxon Ergashboyevna
Teacher at the Department of Humanities and Pedagogy, Turan International University; Doctor of Philosophy (PhD) in Pedagogical Sciences.
Baxodirjonova Dildora Xayotjon qizi
student of group S.BT-22-07, Turan International University
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Abstract. The effective management of student knowledge assessment is an essential component of quality primary education. Assessment in contemporary primary schools should not be limited to measuring students' final academic results; rather, it should provide continuous information about learning progress, identify individual learning difficulties, support pedagogical decision-making, and promote students' motivation and self-regulation. This article examines the theoretical and pedagogical foundations of managing the process of assessing student knowledge in primary education. Particular attention is given to formative, diagnostic, summative, criterion-based, self-assessment, peer-assessment, and digital assessment approaches. The study applies theoretical analysis, comparative analysis, pedagogical modelling, and generalisation of international educational research. The proposed management model integrates learning objectives, diagnostic assessment, evidence collection, analysis, feedback, pedagogical intervention, monitoring, and reflection. The study demonstrates that effective assessment management requires clear criteria, systematic data collection, timely feedback, differentiated support, teacher professional competence, and appropriate use of digital technologies. The proposed model can contribute to improving assessment transparency, individualising learning, strengthening teacher decision-making, and increasing the effectiveness of primary education.

Keywords: assessment management, primary education, student knowledge, formative assessment, feedback, diagnostic assessment, digital assessment, learning outcomes.

Introduction. Assessment is one of the central components of the educational process because it provides information about what students know, understand, and are able to do. In primary education, assessment has particular importance because it influences not only academic achievement but also students' motivation, confidence, attitudes toward learning, and development of self-regulation skills. Traditional assessment systems have often concentrated on tests, marks, examinations, and final results. Although these forms can provide valuable information about achievement, they may not fully explain how students learn, why particular difficulties occur, or what pedagogical support is required. Contemporary approaches increasingly emphasise assessment as a continuous process that connects learning objectives, diagnosis, feedback, and instructional adaptation. UNESCO distinguishes between assessment conducted during learning to understand students' progress and needs and assessment conducted at the conclusion of an instructional period to evaluate achievement. Assessment data can support decisions concerning curriculum, pedagogy, educational resources, and learning improvement. The OECD similarly describes formative assessment and feedback as an ongoing process involving

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learning goals, diagnosis of student learning, feedback, and adaptation of instruction to students' thinking. Therefore, the management of assessment should be viewed as an integrated pedagogical and organisational process rather than as a separate measurement activity. The relevance of this topic is determined by the need to develop assessment systems that are transparent, objective, learner-centred, flexible, and capable of providing teachers with timely information for pedagogical decision-making. The purpose of this study is to develop a pedagogically grounded model for effectively managing the process of assessing student knowledge in primary education.

The study aims to: analyse the theoretical foundations of knowledge assessment in primary education, identify the main types and functions of student assessment, examine the role of formative assessment and feedback, determine the organisational conditions for effective assessment management, investigate the role of digital technologies in assessment, develop an integrated model for managing student knowledge assessment, identify criteria and indicators for evaluating assessment effectiveness.

Literature Review. Contemporary educational research increasingly views assessment as a mechanism for improving learning rather than simply recording achievement. Formative assessment is particularly important because it enables teachers to identify students' current levels of understanding and use this information to adapt instruction.

The OECD's 2025 report *Unlocking High-Quality Teaching* emphasises that formative assessment consists of interconnected practices: establishing learning goals, diagnosing student learning, providing feedback, and adapting teaching to student thinking. The report highlights the importance of continuous assessment and the use of evidence to support instructional decisions.

UNESCO also emphasises the importance of learning assessment for understanding and improving the quality and equity of education. At the individual level, teachers use assessment to collect information about comprehension, learning needs, and academic progress during the educational process.

Feedback represents another important component of assessment. According to the Education Endowment Foundation, effective feedback provides learners with information about their performance in relation to learning goals and helps them identify how to improve. Its evidence review reports positive effects of feedback on learning outcomes, including for primary-age pupils.

The EEF further stresses that effective feedback should be connected to high-quality instruction and formative assessment and should help pupils understand learning gaps and improve their performance.

Thus, the literature indicates that effective assessment management requires a shift from a predominantly summative approach toward an integrated system combining diagnosis, formative assessment, feedback, differentiated support, and continuous monitoring.

Methodology. The research was based on a qualitative theoretical methodology.

The following research methods were applied:

theoretical analysis – analysis of scientific and pedagogical literature on student assessment;

comparative analysis – comparison of traditional and contemporary assessment approaches;

system analysis – examination of assessment as an integrated component of educational management;

pedagogical modelling – development of a model for managing student knowledge assessment;

generalisation – identification of common principles and conditions for effective assessment.

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The conceptual framework was developed using contemporary international evidence on formative assessment, feedback, learning outcomes, and assessment management.

Results and Discussion. Managing student knowledge assessment can be defined as the systematic organisation of assessment objectives, methods, criteria, data collection, analysis, feedback, pedagogical intervention, and monitoring aimed at improving learning outcomes.

Assessment management involves answering several fundamental questions:

- What should students learn?
- What evidence demonstrates successful learning?
- How should this evidence be collected?
- What difficulties are revealed?
- What feedback should students receive?
- What pedagogical intervention is required?
- How should progress be monitored?

Consequently, assessment should be integrated into the learning process rather than implemented only after instruction has been completed.

Main Functions of Assessment in Primary Education. Assessment in primary education performs several interconnected functions.

Function	**Main purpose**	**Expected result**
Diagnostic	Identify prior knowledge and learning difficulties	Accurate understanding of student needs
Formative	Monitor learning during instruction	Timely pedagogical adjustment
Summative	Determine achievement at the end of a period	Evaluation of learning outcomes
Motivational	Encourage effort and learning engagement	Increased learning motivation
Developmental	Develop self-assessment and reflection	Student self-regulation
Corrective	Identify and address learning gaps	Improved academic progress
Management	Provide information for pedagogical decisions	Evidence-based management

The functions should not operate independently. Diagnostic information can determine learning objectives, formative assessment can guide instruction, feedback can support correction, and summative assessment can provide information about final achievement.

Diagnostic Assessment. Diagnostic assessment should be conducted before or at the beginning of a learning unit to determine students' existing knowledge, skills, misconceptions, and individual needs.

For example, before beginning a mathematics unit, a teacher may assess whether students can: perform basic calculations, understand mathematical symbols, solve simple problems, explain their reasoning, apply previously acquired knowledge. The diagnostic results can then be used to divide students into temporary instructional groups or to prepare differentiated tasks. Diagnostic assessment therefore serves as the starting point of the management cycle.

Summative assessment is generally conducted at the end of a learning unit, term, semester, or academic year.

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Its functions include: determining the level of achievement, documenting learning outcomes, evaluating curriculum implementation, informing parents and educational administrators, identifying areas for future improvement. However, summative results should not be interpreted as the only indicator of student development. They should be combined with formative evidence, teacher observations, student work, and other forms of assessment.

Feedback as a Management Mechanism. Feedback is a central mechanism connecting assessment with learning improvement.

Effective feedback should answer three questions:

Where am I now? → Where should I go? → How can I get there?

The EEF reports that feedback can have a substantial positive impact on learning when it provides specific information related to the task, subject, or learning strategies.

Feedback should therefore not simply indicate whether an answer is "correct" or "incorrect". It should help the student understand the reason for an error and identify the next step.

For example:

Instead of:

"Wrong answer."

A teacher might provide:

"Check how you grouped the numbers in the second step. Try the calculation again and explain why you selected this operation."

Such feedback encourages reflection and active correction.

Self-Assessment and Peer Assessment**.** Primary students should gradually develop the ability to evaluate their own learning.

Self-assessment can be organised through:

- reflection questions;
- checklists;
- learning scales;
- traffic-light systems;
- portfolios;
- "two stars and a wish" activities;
- learning diaries.

Peer assessment can also be used when students have clear criteria and appropriate teacher guidance. The purpose is not to transfer responsibility for formal grading to students but to develop their ability to recognise strengths, identify difficulties, and regulate their learning.

Digital technologies create additional opportunities for managing assessment.

Digital assessment systems can provide: automated test results, electronic portfolios, individual learning profiles, progress charts, attendance information, immediate feedback, learning analytics, electronic communication with parents. Digital assessment can reduce some administrative workload and make student progress more visible. However, technological efficiency should not replace pedagogical judgement. Digital tools should be selected according to educational objectives rather than simply because they are technologically advanced.

The teacher is the central actor in assessment management.

The teacher should: establish clear learning objectives, communicate assessment criteria, select appropriate assessment methods, collect evidence of learning, analyse student responses, provide

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feedback, adapt teaching, organise additional support, monitor progress, encourage student reflection. The OECD emphasises that teachers need to interpret evidence of student thinking and respond to it through appropriate pedagogical actions. Thus, teacher assessment competence is an essential condition for effective assessment management.

Discussion. The analysis demonstrates that managing student knowledge assessment in primary education should be understood as a continuous pedagogical management process. The first important finding is that assessment must be connected with learning objectives. Without clearly defined objectives, assessment results may not provide meaningful information about student development. The second finding is that formative assessment has a central role. It enables teachers to identify learning difficulties while instruction is still taking place and to modify teaching accordingly. The OECD describes this as a continuous cycle involving learning goals, diagnosis, feedback, and adaptation. The third finding concerns feedback. Assessment becomes educationally valuable when students can use assessment information to improve their subsequent performance. Evidence summarised by the EEF indicates that effective feedback can have a positive impact on learning, particularly when it provides specific guidance rather than merely assigning a grade. The fourth finding is the importance of student participation. Self-assessment and reflection can gradually transform students from passive recipients of grades into active participants in the learning process. The fifth finding concerns digital assessment. Digital technologies can facilitate data collection, progress monitoring, automated feedback, and communication, but their effectiveness depends on pedagogical design and teacher judgement. Therefore, the most effective assessment management system should combine human professional judgement with systematic evidence and appropriate technological support.

Conclusion. Managing the process of assessing student knowledge in primary education is an important condition for improving educational quality and supporting students' individual development. Assessment should not be limited to determining final achievement; it should continuously provide information that helps teachers and students understand learning progress and identify further development needs. The proposed model integrates learning objectives, diagnostic assessment, formative assessment, evidence collection, analysis, feedback, differentiated intervention, monitoring, reflection, and summative evaluation.

The study demonstrates that effective assessment management depends on several key principles: clarity of learning objectives, transparency of assessment criteria, systematic diagnostic and formative assessment, timely and meaningful feedback, differentiated pedagogical support, student self-assessment, purposeful use of digital technologies, evidence-based pedagogical decision-making, continuous monitoring and reflection. The assessment management process can therefore be represented by the following conceptual formula:

Effective Assessment Management = Clear Objectives + Valid Evidence + Formative Assessment + Meaningful Feedback + Differentiation + Student Participation + Monitoring + Pedagogical Decision-Making.

The proposed approach can contribute to the development of a more transparent, learner-centred, developmental, and evidence-informed assessment culture in primary education institutions.

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