Accuracy of Self-Assessment and Peer Assessment in Learning: A Systematic Literature Review

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Abstract: This study aims to explore the influence of self-assessment and peer assessment in learning, the factors affecting the accuracy of self-assessment and peer assessment, and efforts to enhance the accuracy of self-assessment and peer assessment. This research was a qualitative approach with a systematic literature review method. The data collected are from national and international scholarly journals related to self-assessment and peer assessment in learning, which were then analyzed using content analysis. According to the study's findings, using peer and self-evaluation to evaluate students' learning had a very beneficial effect. Thus, it should be put into practice. Additionally, a number of factors, such as self-confidence, emotional intelligence, self-perception of abilities, prior experience, feedback quality, assessment instrument clarity, assessor agreement, and trust in peer assessment, affect how accurately learners assess themselves and each other. Clear assessment criteria and procedures, which provide students direction for both their own and their peers' evaluations, can increase the accuracy of peer and self assessments. Good feedback is essential to improving both assessment techniques' accuracy. In addition, sufficient instruction for pupils is required to guarantee that evaluations are more precise, impartial, and beneficial.

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Introduction
Effective education involves not only providing information but also actively involving students in the learning process. Assessment techniques, such as self-assessment and peer assessment, help create a responsive learning environment and enhance student engagement (Hanrahan & Isaacs, 2001). According to Nurhardini (2017), Self-assessment involves students evaluating their abilities and achievements, while peer assessment evaluates the abilities and achievements of their classmates. Self-assessment and peer assessment have a strong capacity to engage students in the learning process and enhance their academic achievement. This is because both self-assessment and peer assessment activities result in students feeling more responsible for their learning and more involved in contributing to their understanding and academic achievements (Willey & Gardner, 2010). Furthermore, a collaborative and responsive learning environment is formed through these self-assessment and peer-assessment activities (Matsuno, 2009; Panadero & Brown, 2016).

Several studies have also shown that self-assessment and peer assessment have an impact on the learning process of students, whether it’s about evaluating their learning (Falchikov & Boud, 1989), enhancing and facilitating social interactions (Falchikov & Goldfinch, 2000), or more specific effects such as impacting the understanding and
professional development of medical students (Hoffman et al., 2017), helping students develop self-reflection in writing (Matsuno, 2009), aiding in the development of evaluation skills and conceptual understanding in students (Berg et al., 2007), having a positive influence on students' applied and critical thinking abilities in ecosystem learning (Nurhardini, 2017), and having a positive effect on the motivation of children with Conduct Disorder (Jundyah, 2019). Therefore, self-assessment and peer assessment have a significant impact on the learning process and student achievement.

Through self-assessment and peer assessment, it is expected that students can receive effective feedback on their learning. Feedback is considered effective when students can receive the information well and use it to adjust their behavior or performance. Furthermore, it is important to note that students not only desire feedback for academic purposes, such as achieving good grades, but also because they want to develop their skills through constructive feedback (Orsmond et al., 2010). Constructive and targeted feedback can help students identify strengths and weaknesses in their work and provide direction for improvement so that their skills can develop and become even better (Orsmond et al., 2010). Therefore, accurate self-assessment and peer assessment are needed to ensure that the results provide useful feedback.

The accuracy of self-assessment and peer assessment in learning has been widely discussed in research conducted by experts and has also posed challenges in the use of self-assessment and peer assessment. Research by Eva et al. (2004) suggests that individuals tend to have low accuracy in self-assessment of their knowledge and skills in a specific field, even when that domain is clearly defined. Similarly, research by Alfallay (2004) indicates that self-assessment and peer assessment are often inaccurate, with significant variation in assessors' abilities to provide judgments. Falchikov & Goldfinch (2000) also firmly state that the accuracy and consistency of peer assessment are still subjects of debate.

Some researchers have also revealed insights into the accuracy of self-assessment and peer assessment. For instance, research by Fitzgerald et al. (2003) shows that self-assessment accuracy improves over time, indicating self-awareness and self-improvement. This is due to broader learning experiences and a deeper understanding of the subject or skills being evaluated. Blatchford's (2006) findings show that the stability of self-assessment increases with age, indicating cognitive development and better self-understanding. However, self-assessment accuracy can vary, as some studies suggest it may align with external assessments (Gordon, 1991).

The objective of this research is to explore and understand the accuracy of self-assessment and peer assessment in learning. This is because individuals with inaccurate self-assessment and peer assessment tend to overlook critical feedback, make less effort to improve their skills, and find it challenging to work effectively in teams or collaborations (Berg et al., 2007; Eva et al., 2004). Furthermore, a better understanding of self-assessment and peer assessment can have significant implications for instructional design, the enhancement of teaching quality, and the development of evaluation skills in students (Falchikov & Boud, 1989; Falchikov & Goldfinch, 2000). Therefore, it is necessary to reexamine the accuracy of self-assessment and peer assessment that can be used in learning.

**Research Method**

This research employed the systematic literature review (SLR) method with a qualitative approach. Juandi (2021) states that SLR aims to synthesize research findings comprehensively based on specific questions, using a systematic, clear, and replicable
procedure at each stage of the process. In this study, the SLR process followed the following steps: formulating research questions, applying inclusion criteria, searching for relevant studies on the research topic, selecting studies to be used as primary studies, analyzing the findings of these studies, and then producing a research report (Thovawira et al., 2021).

The research questions in this study include:

1) What is the influence of self-assessment and peer assessment on learning?
2) What are the factors that affect the accuracy of self-assessment and peer assessment?
3) How can the accuracy of self-assessment and peer assessment in learning be improved?

**Inclusion Criteria**

In this study, the inclusion criteria include articles discussing self-assessment and/or peer assessment in the context of learning, articles addressing the influence or effectiveness of self-assessment and/or peer assessment in learning. These inclusion criteria are used to assess the eligibility of studies for analysis.

**Research Study Search Strategy**

The strategy for collecting studies is carried out using search engines such as Scopus, Publish or Perish, and the Education Resources Information Center (ERIC). Keywords used to search for articles include "self-assessment", "peer assessment", "accuracy", "self-assessment, accuracy", "peer assessment, accuracy", and "self-assessment, peer assessment, learning".

**Study Selection and Evaluation**

The process of selecting and evaluating articles is carried out to obtain articles that align with the research theme. Only studies that are relevant to the research topic and meet the inclusion criteria are analyzed. Initially, 34 selected articles were found that matched the research theme. However, 10 of them were excluded because they did not pertain to the field of education or learning. In the end, only 24 articles met the inclusion criteria and were further analyzed.

**Data Analysis and Research Reporting**

Selected articles are then analyzed systematically. Researchers read and checked all selected articles, which were then analyzed using content analysis. Finally, the research findings on the articles are made into a report to obtain comprehensive and balanced knowledge.

**Results and Discussion**

**The Influence of Self-Assessment in Learning**

Self-assessment provides an opportunity for students to evaluate their performance, identify strengths and weaknesses, and develop improvement strategies. As stated by (Dochy et al., 1999) it enhances the metacognitive understanding, aids in evaluation skills development, and promotes independent learning. In higher education, self-assessment is particularly beneficial for medical students, as it allows them to monitor and evaluate their abilities professionally (Hoffman et al., 2017). Research by Falchikov & Boud (1989) shows that self-assessment significantly positively impacts academic achievement, with students who engage in self-assessment achieving better results.

Research conducted by Willey & Gardner (2010) shows that self-assessment has significant potential to involve students in the learning process, where students feel more responsible for their learning. Apart from that, self-assessment can influence students' understanding of learning material and enable students to gain a deeper understanding and
achieve good academic achievements. Self-assessment involves students sharing their abilities and achievements so that they can improve learning abilities, such as applied and critical thinking skills (Nurhardini, 2017). Jundyah (2019) also stated that self-assessment also provides opportunities for students to reflect on their abilities and achievements, identify strengths and weaknesses, and set learning goals that can provide a motivational boost.

From the description above, it is evident that student self-assessment can have a significant impact on learning. Student self-assessment is a powerful learning tool that can significantly impact students' self-assessment skills, provide detailed feedback, and encourage active participation in the assessment process (Grez et al., 2012; Hanrahan & Isaacs, 2001). It allows individuals to critically reflect on their progress and provide feedback to themselves (Ross, 2006). Self-assessment offers advantages such as ease of use, flexibility, and the ability to explore individual understanding and perceptions (Ward et al., 2002). Therefore, educators should consider using self-assessment in their learning strategies.

**The Influence of Peer Assessment in Learning**

Peer assessment offers valuable insights into learners' understanding and development, providing objective feedback from classmates (Hoffman et al, 2017). In higher education, it promotes collaborative learning and offers diverse perspectives from various disciplines (Matsuno, 2009; Suñol et al., 2015). The findings of research by Papinczak et al (2007) suggest that peer assessment offers in-depth feedback on student performance, helping students see different viewpoints and enhance their understanding of the subject matter. Peer assessment is a valuable tool for enhancing learning by providing diverse perspectives and valuable feedback. It aids in developing understanding, critical skills, and self-reflection (Berg et al., 2007; Jones & Alcock, 2014). It fosters a collaborative learning environment by involving students in providing feedback to their peers (Nurhardini, 2017; Panadero & Brown, 2016; Willey & Gardner, 2010). In essence, peer assessment empowers students to assess their peers' work.

**Factors Affecting the Accuracy of Self-Assessment and Peer Assessment**

Challenges in self-assessment that may be encountered include assessment bias and a lack of understanding of objective assessment criteria (Dochy et al., 1999; Orsmond et al., 2010). Other shortcomings in self-assessment can lead to overestimation or underestimation, which can have negative consequences on motivation and personal development. (Chatterji & Mukerjee, 1983). Students may overestimate or underestimate their abilities, resulting in inaccurate perceptions of their progress (Aminu et al., 2021; Fitzgerald et al., 2003). It indicates that self-assessment often has inaccuracies in the evaluations conducted by students themselves.

Many factors influence the accuracy of individual self-assessment, including psychological and biographical factors. Alfallay (2004) mentioned psychological factors such as self-confidence, emotional intelligence, honesty, self-perception of abilities, and perceptions of past achievements, as well as biographical factors that encompass education, previous experiences, social environment, and personal issues, all of which can affect the accuracy of an individual's self-assessment (Chatterji & Mukerjee, 1983). González-Betancor et al. (2019) also stated in their study that factors like self-confidence, self-perception, previous experiences, and group norms could influence the accuracy of student self-assessment in a learning environment. Additionally, factors such as the level of subject expertise and skills, self-confidence, the quality of feedback provided, and the clarity of assessment criteria also affect the validity and accuracy of self-assessment (Gordon, 1991; Lew et al., 2010). Based on the findings from various researchers, it can be concluded that the
factors influencing the accuracy of self-assessment include self-confidence, emotional intelligence, self-perception of abilities, previous experiences, the quality of feedback, and the clarity of assessment criteria.

Similar to self-assessment, peer assessment also faces challenges in its application. Challenges that may arise include differences in understanding assessment criteria, imbalances in contributions among participants in providing assessments, and concerns about conflicts among participants (Dochy et al., 1999). In terms of accuracy, peer assessment remains a subject of debate. As stated by Falchikov & Goldfinch (2000), there is a debate about the accuracy and reliability of peer assessment, with some studies supporting the effectiveness of peer assessment while others suggest that peer assessment may not be accurate. Similar challenges have also been raised by Berg et al (2007), such as the consistency of peer assessments and imbalances in power among peers in providing assessments. Furthermore, a proper understanding of assessment criteria, fairness in assessment, bias tendencies, and the guidance required to provide constructive feedback are also challenges in peer assessment (Nurhardini, 2017; Willey & Gardner, 2010).

Some factors affect the accuracy of the peer assessment so it becomes a challenge in its implementation. These factors include the level of relationship between the rater and the assessed, the level of agreement between raters, and the level of trust in peer assessment (Alfallay, 2004). In addition, crucial factors such as the design of assessment instruments, the active participation of teachers, and quality feedback also need to be considered in the implementation of peer assessments (Wanner & Palmer, 2018). Based on some of these studies, it can be concluded that there are factors that affect the accuracy of peer assessments such as other assessment instruments, the level of agreement between raters, and trust in peer assessment. By understanding the factors influencing self-assessment and peer assessment, it is hoped that a better approach can be developed to facilitate more accurate self-assessment and peer assessment, supporting individual development.

### Accuracy of Self-Assessments and Peer Assessments

Although many researchers have conducted studies on the effectiveness of self-assessment and peer assessment, there is still ongoing debate about the accuracy or precision of these assessments. Some researchers emphasize the need to understand the accuracy of both self-assessment and peer assessment. It is relevant because accurate self-assessment and peer assessment can provide a better understanding of individuals' strengths, weaknesses, progress, and feedback for peers (Alfallay, 2004; Aminu et al., 2021; Berg et al., 2007; Blatchford, 2006; Chatterji & Mukerjee, 1983; Soleimani & Rahmanian, 2014). Therefore, it is important to determine the accuracy of self-assessment and peer assessment in the context of objectively evaluating oneself and one's peers.

A detailed summary of the analysis of the 24 articles can be found in Table 1 below.

<table>
<thead>
<tr>
<th>Researcher</th>
<th>Research Title</th>
<th>Research Method</th>
<th>Research Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suñol et al (2015)</td>
<td>Peer and self-assessment applied to oral presentations from a multidisciplinary perspective</td>
<td>Quantitative n = 224</td>
<td>There is a need for clear and objective guidelines for assessment, as well as adequate training for participants to provide accurate and constructive assessments.</td>
</tr>
<tr>
<td>Dochy et al (1999)</td>
<td>The use of self-, peer and co-assessment in higher education: A qualitative perspective</td>
<td>Qualitative n = 63</td>
<td>Carrying out self-assessments and peer-assessments and joint assessments simultaneously can increase understanding of objective assessment criteria between participants and between...</td>
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<tr>
<td>Review</td>
<td>Title</td>
<td>Methodology</td>
<td>Sample Size</td>
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<tr>
<td>Eva et al (2004)</td>
<td>How Can I Know What I Don't Know? Poor Self Assessment in a Well-Defined Domain</td>
<td>Mixed Method</td>
<td>n = 265</td>
</tr>
<tr>
<td>Falchikov &amp; Goldfinch (2000)</td>
<td>Student Peer Assessment in Higher Education: A Meta-Analysis Comparing Peer and Teacher Marks</td>
<td>Qualitative</td>
<td>n = 48</td>
</tr>
<tr>
<td>Fitzgerald et al (2003)</td>
<td>A longitudinal study of self-assessment accuracy</td>
<td>Mixed Method</td>
<td>n = 500</td>
</tr>
<tr>
<td>Hanrahan &amp; Isaacs (2010)</td>
<td>Assessing Self- and Peer-assessment: The students' views</td>
<td>Qualitative</td>
<td>n = 233</td>
</tr>
<tr>
<td>Stefani (1994)</td>
<td>Peer, Self, and Tutor Assessment: Relative Reliabilities</td>
<td>Quantitative</td>
<td>n = 160</td>
</tr>
<tr>
<td>Chatterji &amp; Mukerjee (1983)</td>
<td>Accuracy of Self-Assessment and Its Relation With Some Psychological and Biographical Factors</td>
<td>Quantitative</td>
<td>n = 417</td>
</tr>
<tr>
<td>Orsmond et al (2010)</td>
<td>The Use of Exemplars and Formative Feedback when Using Student-Derived Marking Criteria in Peer and Self-Assessment</td>
<td>Qualitative</td>
<td>n = 22</td>
</tr>
<tr>
<td>Papinczak et al (2007)</td>
<td>An Analysis of Peer, Self, and Tutor Assessment in Problem-Based</td>
<td>Qualitative</td>
<td>n = 125</td>
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</table>
Students’ self-assessment abilities are accurate when teachers incorporate active learning and helpful feedback. Self-assessment also gives students the confidence to feel fairness in their assessment. Factors such as clear assessment guidelines, engaged teacher participation, and constructive feedback also play an important role in increasing the accuracy of self-assessments in a peer-based learning environment.

The reliability of self-assessments can vary depending on a variety of factors, including the consistency of assessments over time and between different raters. Appropriate steps need to be taken to ensure the reliability of self-assessments, such as using clear assessment guidelines and providing training to assessors. Self-assessment can accurately reflect an individual’s actual abilities, achievements, and competencies. However, there is also the potential for bias and non-objectivity in self-assessment. Thus, it is important to consider the validity of self-assessments carefully and to use an approach that supports their validity.

Self-assessment accuracy can also vary. The research results show that individuals have a good ability to evaluate their abilities and performance accurately. Several factors affect the accuracy of the self-assessment including the level of individual confidence, the level of experience and skill of the subject, the quality of the feedback provided, and the clarity of the assessment criteria.

The need for good management and best practice in using peer assessment in teaching in tertiary institutions. This involves careful monitoring, structured feedback, and in-depth reflection on the peer assessment process.

The importance of developing better measurement methods including self-assessment measurement tools such as selecting appropriate instruments, developing clear assessment rubrics, and using appropriate technology so that challenges in self-assessment can be overcome.

This research shows that the accuracy of students’ self-assessment of their academic achievement increases with age. This suggests that students tend to become more accurate in assessing their academic abilities and skills as their cognitive development and self-understanding mature.

Psychological factors, such as the level of self-confidence and attitudes towards oneself, influence the accuracy of self-assessments. Personality factors, such as domain knowledge, honesty, and level of agreement with rating norms, also have an impact on self-assessment accuracy while the level of relationship between rater and rater being assessed, level of agreement between raters, and degree of trust in peer judgment can affect assessment accuracy, colleague.

The importance of clarity of assessment criteria in peer assessment and self-assessment. By having specific assessment criteria, students can provide a more accurate assessment of their performance and the performance of their peers. This can improve the quality and reliability of the assessment process in

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<td>Ross (2006) The Reliability, Validity, and Utility of Self-Assessment</td>
<td>Qualitative</td>
<td>The reliability of self-assessment can vary depending on a variety of factors, including the consistency of assessments over time and between different raters. Appropriate steps need to be taken to ensure the reliability of self-assessments, such as using clear assessment guidelines and providing training to assessors. Self-assessment can accurately reflect an individual’s actual abilities, achievements, and competencies. However, there is also the potential for bias and non-objectivity in self-assessment. Thus, it is important to consider the validity of self-assessments carefully and to use an approach that supports their validity.</td>
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<tr>
<td>Gordon (1991) A Review of The Validity And Accuracy of self Assessments In Health Professions training</td>
<td>Qualitative</td>
<td>Self-assessment accuracy can also vary. The research results show that individuals have a good ability to evaluate their abilities and performance accurately. Several factors affect the accuracy of the self-assessment including the level of individual confidence, the level of experience and skill of the subject, the quality of the feedback provided, and the clarity of the assessment criteria.</td>
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<td>Berg et al. (2007) Peer Assessment in University Teaching: Evaluating Seven Course Designs</td>
<td>Qualitative</td>
<td>The need for good management and best practice in using peer assessment in teaching in tertiary institutions. This involves careful monitoring, structured feedback, and in-depth reflection on the peer assessment process.</td>
</tr>
<tr>
<td>Ward et al. (2002) Measuring Self-assessment: Current State of the Art</td>
<td>Qualitative</td>
<td>The importance of developing better measurement methods including self-assessment measurement tools such as selecting appropriate instruments, developing clear assessment rubrics, and using appropriate technology so that challenges in self-assessment can be overcome.</td>
</tr>
<tr>
<td>Blatchford (2006) Students' Self Assessment of Academic Attainment: Accuracy And Stability From 7 to 16 Years And Influence of Domain and Social Comparison Group</td>
<td>Quantitative</td>
<td>This research shows that the accuracy of students’ self-assessment of their academic achievement increases with age. This suggests that students tend to become more accurate in assessing their academic abilities and skills as their cognitive development and self-understanding mature.</td>
</tr>
<tr>
<td>Alfally (2004) The Role of Some Selected Psychological And Personality Traits Of The Rater In The Accuracy Of Self- And Peer-Assessment</td>
<td>Quantitative</td>
<td>Psychological factors, such as the level of self-confidence and attitudes towards oneself, influence the accuracy of self-assessments. Personality factors, such as domain knowledge, honesty, and level of agreement with rating norms, also have an impact on self-assessment accuracy while the level of relationship between rater and rater being assessed, level of agreement between raters, and degree of trust in peer judgment can affect assessment accuracy, colleague.</td>
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<td>Miller (2010) The Effect of Scoring Criteria Specificity on Peer and Self-Assessment</td>
<td>Quantitative</td>
<td>The importance of clarity of assessment criteria in peer assessment and self-assessment. By having specific assessment criteria, students can provide a more accurate assessment of their performance and the performance of their peers. This can improve the quality and reliability of the assessment process in</td>
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Students tend to have inaccuracies in their self-assessments, with a tendency to underestimate or overestimate their abilities. However, no significant difference was found in self-assessment accuracy between male and female students. In addition, there is no significant relationship between academic performance and self-assessment accuracy. The researcher adds to the importance of considering the accuracy of self-assessment in the context of higher education and emphasizes the need to develop a more objective and reliable assessment strategy.

There were significant differences between self-assessments, peer-assessments and teachers' ratings in terms of complexity, accuracy and fluency of writing. Teacher ratings tend to give higher ratings in all aspects, while self and peer ratings are more conservative. Comprehensive and varied assessments can provide more effective feedback in developing students' writing skills.

There is a positive relationship between the accuracy of students' self-assessments and their beliefs about their usefulness. This suggests that students who are more accurate in evaluating their performance tend to have higher beliefs about the benefits of self-assessment.

Anonymity in peer ratings can improve appraisal quality by reducing social biases or personal preferences. In addition, there is also research showing that anonymity can affect the honesty of participants in providing honest assessments or feedback.

pre-set assessment criteria can lead to assessments that are too limited and tend to guide students to meet the expectations that have been set. This can hinder creativity, critical thinking, and uniqueness in student assessments. However, it is important to remember that peer assessment without criteria can present challenges, such as confusion over providing specific, objective feedback.

Formative self-assessments and peer assessments can significantly enhance student learning. Several crucial factors need to be considered in the implementation of effective self-assessments and peer assessments, namely the design of the assessment instrument, the active participation of the teacher, and quality feedback.

To enhance the accuracy of self-assessment and peer assessment, various researchers have conducted studies with diverse outcomes. The accuracy of self-assessment and peer assessment can be improved through the presence of clear assessment criteria and guidelines, providing students with a framework for self-evaluation and peer evaluation (Aminu et al., 2021; Dochy et al., 1999; Eva et al., 2004; Fitzgerald et al., 2003; González-Betancor et al., 2019; Gordon, 1991; Jones & Alcock, 2014; Miller, 2010; Papinczak et al., 2007; Ross, 2006; Stefani, 1994; Suñol et al., 2015; Ward et al., 2002). With specific assessment criteria, students can provide more accurate assessments of their performance and that of their peers. Additionally, high-quality feedback plays a crucial role in enhancing the accuracy of both assessment methods (Aminu et al., 2021; Berg et al., 2007; Gordon, 1991; Orsmond et al.,...
2010; Soleimani & Rahmanian, 2014; Wanner & Palmer, 2018). Quality, specific, and targeted feedback can assist students in improving their understanding of what needs to be achieved and developed in their learning. Furthermore, adequate training in conducting assessments can also enhance the accuracy of self-assessment and peer assessment (Ross, 2006; Suñol et al., 2015).

Conclusion
The study's results conclude that self-assessment and peer assessment have a positive impact on learning, and their accuracy can be improved by understanding factors like self-confidence, emotional intelligence, self-perception of abilities, prior experience, feedback quality, and assessment instruments. Clear criteria and guidelines can provide a framework for self-evaluation and peer evaluation, while quality feedback is crucial. Adequate training for students in conducting assessments is also necessary to ensure accurate, objective, and constructive results. Therefore, these methods should be considered for implementation.

Recommendation
Recommendations for teachers to enhance the accuracy of self-assessment and peer assessment in learning to improve decision-making, self-adjustment, feedback, and personal development. Accurate self-assessment and peer assessment can serve as a foundation for developing better learning assessment strategies and a stronger foundation for learning.

References


