The Contribution of Learner Self-Assessment for Improvement of Learning and Teaching Process: A Review

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Abstract
The present study is a literature review of 37 empirical studies from Greece and internationally of the last decade and aims at investigating the contribution of learner self-assessment to: a. enhancement of learning motivation, b. improvement of academic performance/learning, c. development of self-regulating learning and d. raise of self-esteem. According to the findings, enhancement of learning motivation as an outcome of learner self-assessment process has been identified in Greek Higher education, in Secondary education in Physics and in Primary education in English, whereas internationally has been identified in Secondary education in English and Physical education. In Greece, improvement of academic performance/learning as an outcome of learner self-assessment has been found in Higher education, in Secondary education in Physics and in Primary education in English, whereas internationally at all levels of education, in almost all subjects of Secondary education and in Primary education in Language Arts, English and Mathematics. Development of self-regulating learning has been identified in Higher education in Greece and internationally, whereas in Secondary education in Geography and Geometry only internationally. Furthermore, raise of student’s self-esteem as an outcome of self-assessment has been found internationally, in Secondary education in Religious education and in Greek Primary education in English language learning. Moreover, self-assessment process has also been examined internationally in non-formal education where English is taught as a second language with positive outcomes in performance/learning. Finally, self-assessment is implemented through various practices and tools such as rubrics, checklist, scripts, think boards, reflective journals, mind maps and in combination with learning or teaching models.

Keywords: improvement of academic performance/learning, learning motivation, self-assessment, self-esteem, self-regulating learning

1. Introduction
Assessment is the most important aspect of learners’ academic life and should direct their learning. Learners who understand the assessment process acquire the ability to learn better (McKevitt, 2016). Learner assessment requires attention as it always has an impact and effect on learners, and it should also help them achieve their goals (Taratori-Tsalkatidou, 2015). New, alternative ways of assessment have been sought to improve learner assessment as there are many who doubt about traditional ways of assessment (Papageorgiou, 2017), such as written tests. Alternative or authentic assessment methods are based on learner’s involvement in the assessment process (Chang, Tseng, & Lou, 2012). One of these methods is learner self-assessment, which is the subject of this review. Keane and Griffin (2016) emphasize the need to revise the current guidelines and practices of world class policy on self-assessment. Moreover, even though there are impressive benefits of learner self-assessment, there is concern about its implementation (Brooks & Fancourt, 2012). This study presents specific positive outcomes of learner self-assessment and shows how learner self-assessment has been implemented at all levels of education from Primary to Higher education, including non-formal education in order to provide evidence and guidance to researchers about this type of assessment.

Particularly, the present study is a summary of 37 empirical studies and aims at investigating the impact of self-assessment processes on a. motivation for learning, b. improvement of academic performance/learning, c. development of self-regulating learning and d. raise of learner self-esteem, in Greece and internationally the last decade (2008-2018). Furthermore, this study presents ways of implementing learner self-assessment in different
academic contexts.

2. Theoretical Framework

Self-assessment is the ability of learners to assess their performance by making decisions about themselves and their competencies (Chalkia, 2012). It is a type of assessment that serves summative purposes and acts as process that improves learning (Yan, 2018). During self-assessment process learners express their judgment about the effort they make, which may be either autogenous and comes from their personal interest, or heterogenous and comes from someone else (Bellou, 2017). Self-assessment is a very special and important process of the assessment because gives learners the necessary feedback and make them take the appropriate actions to improve (Zapitis, 2011). Especially, it provides internal feedback and helps learners to monitor the gap that there is between their academic performance and the required quality criteria of a task (Hosein & Harle, 2018). In addition, it is a procedure where learners judge or otherwise assess their work and, especially the quality of their work, in the light of various factors related to their psychology, such as motivation, self-esteem, self-regulation, etc. (Yan & Brown, 2017). There are different ways that self-assessment can be implemented such as rubrics, learning logs, portfolio, self-assessment tests, which may be also electronic, and forms in which learners can write their judgment about the effort they make, the obstacles they encounter, how they overcome these obstacles, etc. (Petropoulou, Kasimati, & Retalis, 2015). In order to apply learner self-assessment there are specific stages, which are described in figure 1.

![Figure 1. Stages of learner self-assessment](image)

Source: Adjusted from Rekalidou (2011)

3. Method

The search of the studies was based on the following assessment criteria, which are presented in the table 1.

<table>
<thead>
<tr>
<th>Assessment criteria for studies</th>
<th>Research questions</th>
<th>Geographical distribution</th>
<th>Year of publication</th>
<th>Language</th>
<th>Type of studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research questions</td>
<td>Does the implementation of learner self-assessment</td>
<td>Global</td>
<td>2008-2018</td>
<td>Greek, English</td>
<td>Empirical studies</td>
</tr>
<tr>
<td></td>
<td>a) enhance learning motivation?</td>
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<td></td>
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<tr>
<td></td>
<td>b) improve academic performance/learning?</td>
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<td></td>
<td>c) develop self-regulating learning?</td>
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<td></td>
<td>d) raise self-esteem?</td>
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</tr>
</tbody>
</table>

We used the following search machines: Science Direct, Google Scholar, ERIC, ProQuest, OATD, Taylor & Francis and key-words such as: student/learner self-assessment/self-evaluation/self-appraisal, self-regulation, academic performance/learning, self-esteem, motivation, rubrics, electronic self-assessment,
higher/secondary/primary education. Also, we used a combination of these key-words for more results. The searches yield 91 papers. We checked the titles and the abstracts and excluded 13 papers, because they were literature reviews. Then, we checked the papers for being relevant to our research aim and excluded 41 papers. Finally, we concluded 37 papers.

4. Results

Table 2 presents the examined empirical studies in the context of formal and non-formal education. Formal education includes Higher, Secondary and Primary education and non-formal education includes mainly educational structures where English is taught as a second language.

Table 2. Examined empirical studies

<table>
<thead>
<tr>
<th>Higher education</th>
<th>Researchers (year)</th>
<th>Country</th>
<th>Research method (Sample size)</th>
<th>Implementation of learner self-assessment</th>
<th>Main findings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Quiz (Quiz report analysis for moodle).</td>
<td>Development of self-regulating learning.</td>
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<td>Rubrics</td>
<td>Development of self-regulating learning.</td>
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<td>Rubric</td>
<td>Improvement of academic performance/learning.</td>
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<td>Rubric</td>
<td>Improvement of academic performance/learning.</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td>Self-assessment sheet, a post-study feedback form</td>
<td>Improvement of academic performance/learning.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Co-creating rubrics (learners take part in the creation of rubrics)</td>
<td>Development of self-regulating learning.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Implementation of a systematic cycle where self-assessment is applied as a formative assessment source</td>
<td>Improvement of academic performance/learning.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Combination of self and peer assessment</td>
<td>Improvement of academic performance/learning.</td>
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<td></td>
<td>Combination of self and peer assessment</td>
<td>Improvement of academic performance/learning.</td>
</tr>
<tr>
<td>Researchers (year)</td>
<td>Country</td>
<td>Research method (Sample size)</td>
<td>Subject</td>
<td>Implementation of learner self-assessment</td>
<td>Main findings</td>
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</tr>
<tr>
<td>Fancourt (2008)</td>
<td>England</td>
<td>Qualitative, ethnographic research (30 students)</td>
<td>Religious education</td>
<td>Several techniques such as “traffic lights”, “use of assessment criteria”, “discussion”.</td>
<td>Improvement of academic performance/learning.</td>
</tr>
<tr>
<td>Feldkamp (2013)</td>
<td>USA</td>
<td>Action research (52 students)</td>
<td>Chemistry</td>
<td>A list of “I can” statements</td>
<td>Improvement of academic performance/learning.</td>
</tr>
<tr>
<td>Researchers (year)</td>
<td>Country</td>
<td>Research method (Sample size)</td>
<td>Subject</td>
<td>Implementation of learner self-assessment</td>
<td>Main findings</td>
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</tbody>
</table>

**Primary education**

<table>
<thead>
<tr>
<th>Researchers (year)</th>
<th>Country</th>
<th>Research method (Sample size)</th>
<th>Subject</th>
<th>Implementation of learner self-assessment</th>
<th>Main findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Zapitis (2011)</td>
<td>Canada</td>
<td>Action research (46 students)</td>
<td>English</td>
<td>Learner self-assessment training in four stages (Learner participation in defining criteria, teaching how learners can apply criteria using a variety of samples, provision of feedback to learners and development of action plan).</td>
<td>Improvement of academic performance/learning.</td>
</tr>
</tbody>
</table>

**Educational structures where English is taught as a second language**

<table>
<thead>
<tr>
<th>Researchers (year)</th>
<th>Country</th>
<th>Research method (Sample size)</th>
<th>Subject</th>
<th>Implementation of learner self-assessment</th>
<th>Main findings</th>
</tr>
</thead>
</table>
Figure 2 presents the number of studies per year.

![Number of studies per year](image1)

**Figure 2. Number of studies per year**

Figure 3 presents the number of studies per country.

![Number of studies per country](image2)

**Figure 3. Number of studies per country**

Figure 4 presents the research method of studies.
Figure 4. Research method of studies

Figure 5 presents the sample size of experimental studies.

Figure 5. Sample size of experimental studies

Figure 6 presents the sample size of other empirical studies.
Figure 6. Number of participants of other empirical studies

Figure 7 presents the studies per level of education and the studies which were identified in other educational structures and are relevant to our research aim.

Figure 7. Number of studies per level of education

Figure 8 presents the impact of learner self-assessment in Higher education, especially shows the positive outcomes that self-assessment has on tertiary learners.

Figure 8. Impact of learner self-assessment
Figure 8. Positive outcomes of learner self-assessment in Higher Education

Figure 9 presents the impact of learner self-assessment in Secondary education per subject, especially shows the positive outcomes that self-assessment has on secondary learners.

Figure 9. Positive outcomes of learner self-assessment in Secondary education per subject

Figure 10 presents the impact of learner self-assessment in Primary education per subject, especially shows the positive outcomes that self-assessment has on primary learners.
5. Discussion

The average of studies per year that have examined the impact of learner self-assessment on learning, motivation, self-regulating learning, academic performance/learning, or self-esteem is about (n=4), from 2008 to 2018. In Greece, a minimum number of studies (n=4) has been identified, compared to the international area (n=33).

The most frequent type of research is experimental research (n=19) followed by mixed methods research design (n=7), quantitative research (n=4), qualitative research (n=4) and action research (n=3). Most of experimental studies (n=16) used a sample size with a range of [34-184] participants, only (n=2) studies used a sample size with a range of [184-334] participants and (n=1) study used a sample size with a range of [484-634] participants.

For the rest of the empirical studies, quantitative surveys used the largest sample of 677 participants, followed by mixed methods research design with a maximum sample size of 515 participants, action research with 52 participants and qualitative with 34 participants.

According to Panadero, Brown and Strijbos (2016) most research relative to learner self-assessment focuses on
Higher education. The majority of studies that are relevant to our research aim have been identified in Higher (n=14) and Secondary education (n=14). A small number of studies were found, (n=7) in Primary education and in other educational structures where English is taught as a second language (n=2).

McMillan and Hearn (2008) in their review underline that learner self-assessment enhances learning motivation. According to the findings of this review, enhancement of learning motivation as an outcome of learner self-assessment has been found in Higher education only in Greece (Pournias, 2009). Internationally, in Secondary education on the subject of Physical education (Peyton, 2017) and English (Dalala, 2014), and in Greek Secondary education on the subject of Physics (Nikou & Economides, 2016). Internationally, in Primary education, in Mathematics (Clift, 2015), and in Greece in English language learning (Chalkia, 2012; Anastasiadou, 2013). In addition, the positive outcome of self-assessment with regard to learning motivation has been found internationally in other learning structures where English is taught as a second language (Heidarian, 2016).

McMillan and Hearn (2008) and Brown and Harris (2014) support that learner self-assessment contributes to higher achievement. According to the findings of the present study, internationally, improvement of academic performance/learning as a result of learner self-assessment has been found in the context of Higher education (Wolffensperger & Patkin, 2013; Panadero & Romero, 2014; McKevitt, 2016; Li & Chen, 2016; Ozarslan & Ozan, 2016; Rivas & Arrufat, 2016; Elgadal, 2017; Fraile et al., 2017; Duque Micán & Cuesta Medina, 2017; Machera, 2017; Ndoye, 2017) and in Secondary education in Mathematics (Yu, 2013; Popelka, 2015), Language Arts (DeMent, 2008; Andrade et al., 2010), Physics (Thrasher, 2012), Chemistry (Feldkamp, 2013), English (Dalala, 2014), Geometry (Hatami, 2015), Religious education (Fancourt, 2008), Geography (Alonso-Tapia & Panadero, 2010; Panadero et al., 2012), Physical education (Peyton, 2017) and lastly in all subjects (McDonald, 2009). In Greece, learner self-assessment contributed to the improvement of academic performance/learning in Higher education (Pournias, 2009) and in Secondary education in Physics (Nikou & Economides, 2016). Moreover, internationally, in Primary education, improvement of academic performance/learning as an outcome of learner self-assessment has been found in Language Arts (Andrade et al., 2008; Stylianou, 2008), English (Goto & Lee, 2010; Zapitis, 2011) and Mathematics (Clift, 2015), whereas only in English language learning (Chalkia, 2012; Anastasiadou, 2013) in Greece. At this level of education, the contribution of learner self-assessment to improvement of performance/learning has not been examined in other subjects than those mentioned above. As Elder (2010) argues, there is no much research of learner self-assessment in Primary education of academic performance/learning which relates to particular academic tasks. With regard to non-formal learning structures where English is taught as a second language, the positive effect of self-assessment on the performance/learning has been found only internationally (Birjandi & Tamjid, 2012; Heidarian, 2016).

As highlighted by Brown and Harris (2014), learner self-assessment leads to greater self-regulating learning. Based on research evidence, internationally, development of self-regulation skills as an outcome of learner self-assessment has been found in Higher education (Tai, 2012; Panadero et al., 2013; Fraile et al., 2017) and in Secondary education on the subject of Geography (Alonso-Tapia & Panadero, 2010; Panadero et al., 2012) and Geometry (Hatami, 2015), whereas only in Higher education (Pournias, 2009) in Greece. In Primary education no research has been identified in international and Greek context.

In addition, raise of learner’s self-esteem as an outcome of implementation of self-assessment procedures has been found in Religious Education in Secondary education internationally (Fancourt, 2008), and in Greek Primary education in English language learning (Chalkia, 2012).

For implementing self-assessment process, there are various ways such as tools, practices and/or combination of self-assessment with learning or teaching models. Specifically, in Higher education the use of quizzes such as the quiz report analysis for moodle (Pournias, 2009), the online self-assessment quiz taking behaviors (Ozarslan & Ozan, 2016), rubrics (Panadero & Romero, 2014; McKevitt, 2016), electronic rubrics (Rivas & Arrufat, 2016), self-assessment sheet and post study feedback form (Elgadal, 2017) have a positive effect on academic performance/learning. Moreover, the combination of self and peer assessment (Li & Chen, 2016; Machera, 2017; Ndoye, 2017), the implementation of a systematic cycle where self-assessment is applied as a formative assessment source (Duque Micán & Cuesta Medina, 2017), the involvement of learners in creating rubrics (co-creating rubrics) (Fraile et al., 2017) and learner self-assessment within the framework of co-teaching (Wolffensperger & Patkin, 2013) contribute to the improvement of academic performance/learning. Furthermore, studies have shown that learner self-assessment within the context of the Bigg’s 3P learning model (Tai, 2012), the use of scripts (Panadero et al., 2013), the quiz report analysis for moodle (Pournias, 2009) and co-creating rubrics (Fraile et al., 2017) develop self-regulating learning. Lastly, enhancement of learning motivation can be
achieved using the quiz report analysis for moodle (Pournias, 2009).

In Secondary education, the use of portfolio, self-assessment scales, rubrics, checklist, self-goal setting, student led conferences with teacher and parents (DeMent, 2008), self-assessment training modules and real life examples (McDonald, 2009), self-assessment scripts (Alonso-Tapia & Panadero, 2010), model essay for generating criteria and rubrics (Andrade et al., 2010), rubrics and scripts (Panadero et al., 2012), student learning targets rubric, assignment and effort tracking log (Thrasher, 2012), list of “I can” statements (Feldkamp, 2013), think boards, reflective journals and mind maps (Yu, 2013), establishment of criteria, comparison of work to the criteria and/or standards and provision of feedback (Dalala, 2014), rubric (Popelka, 2015; Peyton, 2017), learner self-assessment with collaborative learning (Hatami, 2015), computer-based and mobile-based self-assessment (Nikou & Economides, 2016) contribute to the improvement of academic performance/learning. Several techniques such as “traffic lights”, “discussion” and use of assessment criteria (Fancourt, 2008) have a positive effect not only on academic performance/learning but also on self-esteem. Furthermore, from the above, scripts (Alonso-Tapia & Panadero, 2010; Panadero et al., 2012) and implementation of learner self-assessment with collaborative learning (Hatami, 2015) can develop self-regulating learning. Also, the use of computer-based and mobile-based self-assessment (Nikou & Economides, 2016), rubric (Peyton, 2017), and the self-assessment procedure that includes establishment of criteria, comparison of a task to criteria and feedback provided to learners can enhance learner’s motivation (Dalala, 2014).

In Primary education, the use of portfolio (Stylianou, 2008), rubric and model of generating criteria (Andrade et al., 2008), learner self-assessment training in stages (Zapitis, 2011), quiz, role playing activities and oral presentations (Goto & Lee, 2010) contribute to the improvement of performance/learning, whereas self-assessment with goal setting (Clift, 2015) and implementation of learner self-assessment through reflective practice report with “emphasis” on writing process approach not only improve performance/learning but also enhance learning motivation (Anastasiadou, 2013). Besides, self-assessment checklist can affect positively learning motivation, self-esteem and performance/learning (Chalkia, 2012).

Self-assessment has been implemented in other educational structures where English is taught as a second language. Especially, the implementation both of self and peer assessment have positive outcome on performance/learning (Birjandi & Tamjid, 2012), whereas checklist (analytic scoring rubric) and self-reporting questionnaire also influence positively learning motivation (Heidarian, 2016).

6. Conclusions

Last decade (2008-2018) most research that examined the contribution of learner self-assessment to motivation for learning, improvement of academic performance/learning, development of self-regulating learning and raise of learner self-esteem has been identified in Higher and Secondary education in contrast to Primary education where it was found only a small number of studies. Therefore, there is need for more research in Primary education. Besides, there is much more research internationally than in Greece and this leads to focus on investigating learner self-assessment in Greek educational reality in the future. Furthermore, it is noticeable that teaching English as a second language in other educational structures such as non-formal education is equally an interesting field of research for examining the outcomes of learner self-assessment process.

Experimental research is the most commonly used method of investigating the effects of self-assessment on learners compared to other types of empirical research. The range of the sample size in most of experimental research is (34-184) of participants.

Internationally, most of the studies that come to the conclusion that learner self-assessment enhances learning motivation have been identified in Secondary education on the subjects of Physical education and English and in Primary education in Mathematics, whereas in Higher education there is no research. In Greece, it was found research in Higher Education, in Secondary education on the subject of Physics and in Primary education in English language learning. Therefore, internationally there is need for examining enhancement of learning motivation as a result of the implementation of self-assessment processes mainly in Higher education, and in Secondary and Primary education in more subjects. In Greek Secondary education research in other subjects such as Geography, Religious education, Mathematics, Chemistry, Language Arts is necessary and in Primary education in other subjects rather than English. Additionally, in international area, learning structures where English is taught as a second language is a field in which the relationship of self-assessment with learning motivation has been explored.

Internationally, the relationship between learner self-assessment and improvement of academic performance/learning has been studied most in Higher Education and in almost all subjects of Secondary education, whereas in Primary education there are less studies and mainly on the subjects of Language Arts,
Mathematics and English. In Greece, there is a very small number of studies in three levels of education. Especially, it was found one study in Higher education, one study in Secondary education on the subject of Physics and there are two studies in English language learning in Primary education. So, according to what has been examined about the impact of self-assessment on improvement of performance/learning, there is need for more research in Primary education in other subjects such as History, Physical education, Geography, and Religious education in Greece and internationally. Furthermore, the effect of self-assessment on the improvement of learners’ performance/learning in other learning structures where English language is taught as a second language has been examined only internationally.

Studies that confirm development of self-regulating learning as an outcome of learner self-assessment have been identified in Higher education internationally and in Greece, whereas in Secondary education on the subjects of Geography and Geometry only in international area. Consequently, internationally in Primary education there is a research gap related to examination of contribution of learner self-assessment to development of self-regulation skills, whereas in Greece there is a gap in Secondary and Primary education.

In addition, raise of learner’s self-esteem as an outcome of implementation of self-assessment processes has been identified in Secondary education on the subject of Religious education internationally, and in Greek Primary education in English language learning. Consequently, this leads to the conclusion that there is need for more research in Higher and Primary education internationally, whereas research is required in Greek Higher and Secondary education.

Self-assessment process can be implemented with electronic or non-electronic tools, techniques, practices and/or in combination with various learning or teaching models. Internationally, in Higher education, quizzes such as the quiz report analysis for moodle, the online self-assessment quiz taking behaviors, electronic and non-electronic rubrics, self-assessment sheet and post study feedback form, the combination of self and peer assessment, learner self-assessment within the framework of co-teaching, the implementation of a systematic cycle where self-assessment is applied as a formative assessment source, the involvement of learners in creating rubrics (co-creating rubrics) can improve academic performance/learning. In addition, learner self-assessment within the context of the Bigg’s 3P learning model, scripts, the quiz report analysis for moodle and co-creating rubrics develop self-regulating learning. Finally, the use of the quiz report analysis for moodle also contributes to enhancement of learning motivation.

In Secondary education portfolio, rubrics, self-assessment scales, checklists, self-goal setting, student led conferences with teacher and parents, self-assessment training modules, real life examples, self-assessment scripts, model essay for generating criteria, scripts, students learning targets rubric, assignment and effort tracking log, list of “I can statements”, think boards, reflective journals, mind maps, establishment of criteria, comparison of work to the criteria and/or standards and provision of feedback, learner self-assessment with collaborative learning, computer-based and mobile-based self-assessment contribute to the improvement of academic performance/learning. Techniques such as “traffic lights”, “discussion” and use of assessment criteria not only improve academic performance/learning but also raise self-esteem. Yet, scripts and the combination of learner self-assessment and collaborative learning contribute to development of self-regulating learning. Furthermore, computer-based and mobile-based self-assessment, rubric and the procedure that include establishment of criteria, comparison of work to these criteria and feedback provided to learners enhance learning motivation.


Internationally, in non-formal education and especially in the context of teaching English as a second language, checklist (analytic scoring rubric) and self-reporting questionnaire can enhance learning motivation, whereas the combination of self and peer assessment can affect positively performance/learning.

7. Limitations and Proposals for Further Research

The limitations of this review include the focused search on specific search machines, as well as the examination of specific benefits as an outcome learner self-assessment. Proposals for future research could be the following subjects:

- Literature review that examines other positive outcomes of learner self-assessment such as promotion of
• Responsibility, raise of self-efficacy, development of learner autonomy in all levels of education and in non-formal education.

• Empirical research for examining the impact of self-assessment process on improvement of performance/learning, enhancement of learning motivation, development of self-regulating learning and raise of self-esteem in subjects such as History, Geography, Religious education, Language Arts and Mathematics in Greek Primary education.

• Comparison of the effectiveness and ease of use of various tools, practices in self-assessment process.

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