

Dynamic Assessment of Incidental Vocabularies: A Case of Iranian ESP Learners

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Abstract

Dynamic assessment (DA), stemmed from both Vygotsky's (1978) learning theory and Feuerstein's (1979) theory of mediated learning experiences, is an alternative to static assessment. It focuses on both instruction and assessment aiming at promoting learning through mediation. DA has been widely researched in different linguistic areas, but there is paucity of research on its practice in ESP contexts. Accordingly, this study investigated the effectiveness of DA on incidental vocabularies emerging in technical reading textbooks, written for electronic engineering students. The study employed a quasi-experimental research design. Due to sample selection problems, an intact group of 25 BA electronic students were selected from the University of Zanjan. A pre-test was administered to check whether they had previous knowledge of the target words, incidentally acquired during the reading activity. As for the instrument stage, DA procedures were utilized in order to individualize participants' assessment. Following DA implementation, a post-test similar in content to pre-test, was administered to the same participants. The significance of DA for the enhancement of incidental vocabularies was to make participants aware of the strategies of identifying, evaluating and monitoring vocabularies (Nassaji, 2003) through mediation process. The results indicated that participants' incidental vocabulary learning promoted dramatically using DA, which employed structured hints for the mediation process. The results of this study can inform both teachers and learners to provide a step by step procedure to promote both teaching and assessment of ESP learners' vocabulary.

Keywords: Dynamic Assessment, Incidental Vocabulary Learning, ESP Learners, ZPD, mediation

1. Introduction

The emergence of Dynamic Assessment in EFL contexts is not a recent phenomenon. But, DA dealing with ZPD of learners is a relative term to be defined. There are numerous definitions for DA in the literature. Leunng (2007) defines dynamic assessment as a new approach to assessment which is based on dynamic interaction between the person who examine and the examinee. In this process, the examiner provides leading questions and prompts so as to mediate the examinee. Dynamic assessment, being a subdivision of formative assessment, is based on Vygotsky's socio-cultural principles and is an alternative to static assessment. As Lidz and Gindis (2003, p. 99) suggest, DA is an "approach to understanding individual differences and their implications for instruction that embeds intervention within the assessment procedure."

According to Haywood and Lidz (2007, p. 1) DA is "an interactive approach to conducting assessments... that focuses on the ability of the learner to respond to intervention." In fact, DA focuses on interventions that ease the learning process (Lidz, 1991). DA is distinctly different from static assessments. The results of traditional assessment or non-dynamic assessment only reveals the abilities that have been already developed; however, the dynamic score and the analysis of the Zone of Proximal Development (ZPD) makes it possible to find out about the abilities that have not developed yet, but can be developed in collaboration with a more knowledgeable person (Ajideh, Farrokhi, and Nourdad, 2012).

English for Specific Purpose (ESP) courses have always felt the need for teaching specialized/technical vocabulary since 1960's, when it first emerged (Nito, 2004). It is important to note that vocabulary is the core of ESP courses; thus, teaching specialized vocabulary to ESP learners has been a concern throughout the history of ESP and language teaching. To this end, in this study, the attempt was made to recruit the instructional dimension of DA for ESP

vocabulary acquisition. Since there are different layers of vocabulary acquisition, incidental vocabularies were chosen as the target of this study to be deeply scrutinized. Therefore, the following research question and its related hypothesis were formulated for present piece of research.

2. Literature Review

2.1 Dynamic Assessment

2.1.1 Theoretical basis of DA

Dynamic assessment is theoretically based on two psychologists' work; it is based on Vygotsky's socio-cultural theory and zone of proximal development (ZPD) and Feuerstein's structural cognitive modifiability theory and mediated learning experience (MLE). Based on Vygotsky's (1978) definition, ZPD is the distance between a child's actual developmental level, autonomous problem solving and the higher level of latent development, problem solving under adult guidance or in collaboration with more capable peers. Tzuriel (2001) defines MLE as an interactional process in which parents manipulate adult-child interactions in order to trigger child development.

2.1.2 Dynamic vs. static assessment

DA is an alternative to static assessment. The differences between the two types of assessment are in terms of their testing goals, orientation, context of testing, and interpretation of results (Carney and Cioffi, 1992). First, the goal of DA is assessment of change but SA evaluates static performance. Second, DA's orientation is learning process, while SA's orientation is end products. Third, the context of DA is dynamic, open and interactive; however, the context of SA is standardized, structured and formal. Fourth, DA interprets results subjectively and the peak performance is considered, but SA interprets results objectively and the average performance is considered.

2.1.3 Different approaches to DA

There are two approaches toward DA, resulting from the two different interpretations of ZPD. The first interpretation is quantitative leading to interventionist DA and the second one is qualitative interpretation of ZPD, leading to interactionist DA.

A preset list of prompts and feedback for each item is provided to examiners during the test administration in the interventionist approach. Lantolf and Poehner (2004a) believe that this approach is psychometric-oriented and is not done for the purpose of enhancing learning. Poehner (2008) defines interventionist DA as the model in which all hints and prompts are prearranged from the most explicit to the most implicit in which the mediator does not react to the learner's needs, but rather s/he follows those highly scripted mediational forms (Hassaskhah and Javan Haghparast, 2012).

Vygotsky's second qualitative interpretation of ZPD brought about the second approach to DA called interactionist. Interactionist approach to DA puts emphasis on learning over assessment. Feuerstein, one of the leading advocates of interactionist DA, argues that if appropriate forms of interactions and instructions are provided, cognitive abilities can be developed (Poehner and Lantolf, 2005). In this approach, it is not the preordained prompts or hints that direct assessors' reaction, rather s/he responds on the basis of the learners' needs throughout the DA procedure. In this approach, the examiner cooperates with the learners so as to complete a specific task or test (Poehner, 2008).

A difference between the two aforementioned approaches is that mediational hints of the interactionist approach are not scripted and thus, standardized. Therefore, it rests on the examiner's preparation as well as his understanding of the learner's ZPD, because the mediations are formulated in the face of observing learners' needs (Lantolf and Poehner, 2004a).

2.1.4 Mediation

According to Poehner (2008), Vygotsky and his colleagues developed what has come to be known alternatively as sociocultural theory, social historical theory, cultural psychology, and cultural historical psychology. The basic tenet of Vygotsky's theory is that human cognition is mediated socially through interaction with others and culturally through the use of cultural objects (Cole and Engestrom, 1993; Vygotsky, 1986; Wertsch, 1985). The basic idea is that engaging in activities that are mediated by others and by cultural objects paves the way for individuals to learn faster.

Mediation in the case of L2 learning can adjust and modify learning actions that were first unfocused. Therefore, as Donato and MacCormick (1994) state mediation is the instrument of cognitive change and learning. Since responsiveness to mediation offers valuable insights into learners' future development, it is crucial for understanding cognitive ability.

2.1.5 Empirical works on DA

In recent years DA has attracted the attention of many scholars in the world, and Iranian scholars are not exceptions. For example, Mardani and Tavakoli (2011) investigated the effect of interactionist DA on 30 Iranian male students and after calculating their performance using t-test, concluded that students' performance had significant improvement after implementation of DA. In another paper written by Jafary, Nordin and Mohajeri (2012), the effect of dynamic assessment on learners' syntactic knowledge of pre-university male learners was examined and compared with static assessment and it was concluded that DA outperformed SA in improving syntactic knowledge of learners. In their quasi-experimental research, Hassaskhah and Javan Haghparast (2012) compared the effect of the two main models of DA on the improvement of the writing abilities and attitudes of EFL learners and concluded that none of them can be given priority; just the situation in which they can be used is different. Birjandi, Estaji and Deyhim (2013) also conducted a research and explored the feasibility of development and implementation of dynamic assessment procedure in the areas of EFL reading comprehension and metacognitive awareness of reading strategy and suggested that DA is

an effective tool to understand the learners' abilities and to help them success in facing up to reading problems or difficulties. Ajideh and Nourdad (2013) wrote a qualitative paper and presented the advantages of applying DA for identifying the individual EFL learners' reading comprehension ability and proved that DA has a more detailed view over assessing abilities and is efficient in identifying the exact scope of ability for each person.

Nirmalakhandan (2012) investigated a computer-based DA system and suggested that since the implementation of such systems, performance of the students has improved and these systems are preferred by students. Gillam, Pena and Miller (1991) conducted a research studying the role of narration and exposition in gaining literacy and proved that the information that is obtained from DA can be used to distinguish whether a child's low performance is due to her language difference or language impairment. In their quasi-experimental research, Beak and Kim (2003) used three types of concept achievement tests and concluded that DA-based instruction increases children's learning. Orikasa (2010) studied interactionist DA in an L2 context by tutoring L2 English oral communication and investigated how interactions between a mediator and a L1 Japanese student were negotiated. The results indicated that interactionist DA in the L2 context is effective in helping the learner overcome problems and perform better through negotiated interactions with the mediator.

2.2 ESP

Language for Specific Purposes (LSP) has been researched from a long time ago (Dudly-Evans & St. John, 1998) and since the focus of research is upon English today, English for specific purposes (ESP) has gained ascendancy in different fields (Dudly-Evans & St. John, 1998). "ESP has been referred to as applied ELT as the content and aim of any course is determined by the needs of a specific group of learners" (Dudly-Evans & St. John, 1998). Iran has not lagged behind from other countries and many researchers have conducted studies on ESP.

Rajabi, Kiany, and Maftoon (2012) investigated the effects of an ESP in-service teacher training program on Iranian ESP practitioners' beliefs and application of instructional tools and also students' achievements. They found that the training program had an influential and beneficial role on the beliefs and practices of ESP teachers.

Alibakhshi, Ghand Ali and Padiz (2011) endeavored to meticulously examine ESP teachers' roles in Iran to see the procedure they follow in their classroom is appropriate or not. The results indicated that Iranian ESP teachers do not teach English and they are not innovative in their teaching and learning.

Amirian and Tavakoli (2009) also studied ESP textbooks offered to students at universities in Iran in terms of their language skills and components and investigated the extent to which these ESP courses have been efficacious in satisfying engineers' job requirements. The results revealed that ESP courses offered in Iranian universities do not suffice to meet the job requirements of engineers.

Sarani and Sahebi (2012) investigated ESP vocabulary learning taught within the paradigm of TBLT. Their findings showed that TBLT was effective in teaching technical vocabularies and could enhance ESP vocabulary learning.

Although ESP has gained importance in Iran and has been under investigation by researchers, ESP is not in a good position in Iran, currently. Some believe that this situation is due to lack of untrained ESP teachers (Rajabi, Kiany, and Maftoon 2012).

2.3 Incidental vocabulary learning

In acquiring any language, vocabulary learning is a crucial part and it appears inconceivable that vocabulary can be acquired only through explicit studying and teaching. There is a widely-held belief among teachers and researchers (e.g., Milton, 2009; Hulstijn, 2001) that most L2 vocabulary is acquired incidentally.

2.3.1 Strategies and knowledge sources and learning incidentally

An important point about incidental L2 vocabulary acquisition is that the teacher does not direct the learner's attention to the target words. For example, in Laufer (2006, p. 156), "participants were not told that the purpose of the experiment was vocabulary learning and that they would be tested on vocabulary". However, the learner and not the teacher should decide to attend to the input or not.

When the learner decides to do so, he can resort to two types of tools to infer the meaning of unknown vocabularies, that is, word guessing strategies and knowledge sources (Norzadeh & Khatib, 2012). A number of researchers (Nassaji, 2003, 2004) have conducted different studies to investigate these two different tools used when learning vocabulary incidentally. Nassaji (2003, 2004) identifies three types of word-guessing strategies, i.e. identifying, evaluating, and monitoring, and also five knowledge sources namely grammatical, morphological, world, first language, and discourse knowledge facilitating incidental vocabulary learning. It should be noted that, each strategy is further divided into subtypes and each knowledge source has a detailed explanation that are all beyond the scope of this paper.

2.3.2 Empirical studies on incidental vocabulary learning

In a research by Zeeland and Schmitt (2013), L2 learners' acquisition of three vocabulary knowledge dimensions through listening was investigated and they found that learners start developing knowledge of a word long before they master the form-meaning link.

The concept of incidental learning has been particularly important in the context of research on vocabulary acquisition, which is the core of ESP and therefore both notions will be discussed jointly incorporating DA.

In the same line, a great number of research has been conducted in Iran on dynamic assessment of different general English linguistic areas including vocabulary learning, listening, reading and writing (e.g. Saeidi and Hosseinpour, 2013; Ajideh and Nourdad, 2013; Birjandi, Estaji, Deyhim, 2013; Mardani and Tavakoli, 2011). However, there is paucity of research on DA and ESP, together. To the best knowledge of researchers, there has not been any research on

dynamic assessment of ESP vocabulary learning. Ample reasons were provided for the start of this work. Accordingly, having acknowledged the importance of vocabulary learning in ESP, this study investigated the effectiveness of DA on incidental vocabularies emerging in technical reading textbooks, written for electronic engineering students, incorporating the two concepts of DA and ESP. Therefore, the research question and the null hypothesis are formulated as follows:

1. Does dynamic assessment improve ESP learners' incidental vocabulary learning?

H₀: Dynamic assessment does not improve ESP learners' incidental vocabulary learning.

3. Method

3.1 Participants

The participants of this project involved 25 undergraduate students of Electronic engineering studying in the University of Zanjan, during academic year of 2014-2015. The participants chosen had passed their ESP course. They were male and female students and all were native speakers of Persian. It should be noted that gender was not considered as a moderator variable.

3.2 Instruments and materials

3.2.1 The Proficiency test

Preliminary English Test (PET) was used to homogenize the proficiency level of students. This test was composed of two parts: Reading and Writing. The reading part included five parts with 35 multiple-choice items providing simple written information. The writing section, on the other hand, consisted of three parts with 16 items that the students were asked to do sentence completion, to provide specific information, and to write a letter with the word limit of 100 words. It is important to note that the researchers used just two skills of the PET exam, i.e., *writing* and *reading* that were relevant to the purpose of the research. The listening section was not administered due to the impracticalities involved.

3.2.2 Vocabulary tests

The textbook used in the University for ESP course was composed of twenty short passages on different issues in electronics as well as some exercises. The pre/posttest of the incidental vocabularies were extracted from the textbook, written by Manoochehr Haghani in 2013, published by the Organization for Researching and Composing University Textbooks in the Humanities (SAMT).

3.2.3 Reading passages

Two passages were chosen from the book mentioned earlier in order to dynamically assess the incidental vocabularies of our intact group. These two passages were the same in terms of their readability and vocabulary profile.

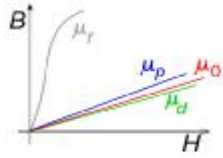
3.3 Data collection

After administrating the proficiency test and making the group homogenous, the following procedures were followed. The pre-test of vocabulary from the aforementioned book was administered to the participants. The scores on this test were recorded for further comparison with the results of the post-test. Once the pretest was administered, the researchers tried to go through the mediational steps. According to literature (see for example Poehner, 2008), mediation is the core in dynamic assessment studies. Therefore through some preordained hints, the researchers tried to dynamically assess every single item of the pretest, especially the ones in which participants might commit mistake. The fact of the matter is that the researchers started with those problematic items and through giving hints to them tried to prepare them for a better future performance on the type of vocabularies. An example of a set of hints for an item is provided in Figure 1.

Permeability is

- The property of a magnetizable substance that determines the degree in which it modifies the magnetic flux in the region occupied by it in a magnetic field.
- The amount of energy that a valence needs to jump from the valence band to the conduction band.
- The intrinsic silicon crystal having enough energy for some valence electrons to jump in the conduction band.
- The conductivity of a semiconductor being drastically increased by the addition of impurities.
- The input signal voltage causing the gate-to-source voltage to swing above and below its Q-point value.

H1: That is not the right answer.
H2: That is not right either. Look at the use of this word in the following sentence:
There is one class of materials-principally iron and its alloys with nickel, cobalt, and aluminum for which the relative permeability is very many times greater than that of free space.
H3: That is not right either. Look at the following diagram which is a simplified comparison of permeabilities for: ferromagnets (μ_f), paramagnets (μ_p), free space (μ_0) and diamagnets (μ_d)



H4: The correct answer was "a".

Figure 1. An Example of a hint during DA

The results revealed that the difference between the pretest and the posttest was statistically significant [$t(24) = 13.936$, $p < .05$]. Therefore, the null hypothesis is rejected. It indicates that the treatment in the form of dynamic assessment and mediation after pretest has been effective in the vocabulary learning of ESP learners.

Overall, DA proved to be significantly effective in vocabulary learning of ESP learners. One important point to make is that there are other ways of measuring the effectiveness of DA on different linguistic dimensions. One of these ways is to count the number of hints and make frequency tables to see how much of mediation was necessary for a particular item. Consequently, more detailed information can appear. But, in this piece of work, due to time restrictions, the comparison of vocabulary performances was focused.

5. Discussion and conclusion

This study focused on alternative assessments, specifically dynamic assessment, targeting Iranian ESP learners' incidental vocabulary learning. It is clear that assessing learners' performance constitutes a crucial part of English language courses. However, most ESP learners look at testing as something frightening and revolting; accordingly, the need for alternative types of assessment on ESP has always been tangible (Hutchinson and Waters, 1987). Static assessment, which is commonly used by teachers in ESP context, can be criticized by educational experts due to its ignorance of learners' potentialities, or technically put, ZPD. Considering the limitations of static assessment and taking into account new trends in language assessment, the present study aimed to touch upon the role of dynamic assessment in incidental vocabulary learning in ESP context.

The analysis of the obtained data reveals that the difference between the performances of the participants, who received treatment in the form of mediation, was statistically significant. In other words, dynamic assessment could improve the vocabulary learning of ESP learners. The results of this study like many DA-based studies (see for example, Amirian and Tavakkoli, 2009; Rajabi, Kiani and Maftoon, 2012; Ajideh and Nourdad, 2013) proved to be significant for both language-learning and teaching. In fact no work, to date, has refuted the effectiveness of DA on different linguistic dimensions.

This study is closer in content to what Saeidi and Hosseinpour (2013) conducted. In their study, the role of DA on vocabulary leaning in general English classes was emphasized. The results of their research demonstrated the positive impact of DA on students' performance. But, the present study, by choosing ESP context, on the one hand, and focusing on incidental vocabularies, on the other, endeavored to provide a new context of research. Correspondingly, this work shed new lights on both testing arena and language teaching/learning.

Therefore, mingling assessment and instruction can be beneficial for vocabulary learning of ESP learners. Process-oriented dynamic assessment can improve the vocabulary learning of ESP learners. The researchers firmly believe that adopting DA in ESP classes leads to more involvement of learners in the process of learning. It also increases learners' motivation and reduces the nervousness of taking test. On the other hand, teachers can employ DA to gauge the learners' understanding and awareness and identify the areas that learners need more help.

In conclusion, this study coupled with other studies attested the positive part DA plays in language testing and learning. More studies are needed to concentrate on the attitude of participants on DA. Besides, the role of gender as a control variable should be given more heed.

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