

INTERNATIONAL PEER REVIEWED JOURNAL ISSN: 2229-9327

Arab World English Journal

Arab World English Journal (AWEJ) Volume 13. Number2. June 2022 DOI: https://dx.doi.org/10.24093/awej/vol13no2.13

Pp. 192-204

# Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

Mohammad R. Alnufaie English Language Institute Royal Commission for Jubail and Yanbu, Saudi Arabia Email: <u>Nofaie\_m@jic.edu.sa</u>

Received:10/15/2021

Accepted: 4/29/2022

Published:6/24/2022

#### Abstract

Strategy instruction is essential in the literature of language learning/learner strategies. This paper employs a literature review to determine how much strategy instruction is addressed in language learning research in Saudi Arabia, how many instruments have been used and what kind of strategies are taught. A search was conducted on articles from 1950 to 2020 through the Saudi Digital Library. From an initial 297 records, 17 (5.7%) studies met the review criteria. This small number reflects the shortage of language learning strategy instruction in Saudi Arabia. The reviewed studies also targeted different variables in their strategy instructions, which shows that they were developed based on personal discretion. The most taught strategies are reading strategies and then vocabulary/spelling strategies. The least taught strategies, however, are social and motivational strategies. Only one of the studies utilized a standardized measure for one of its dependent variables after instruction. Thus, it was difficult to make comparisons across the studies. It is recommended that Saudi strategy researchers include strategy instruction in their investigation of language learning strategies and calculate the duration of their instruction in hours for clarity. They should also explain in detail what intervention is used, why and how they conducted the instruction. In addition, strategy instruction is a demanding task that requires a multi-method data collection approach.

*Keywords*: language learner strategies, strategy intervention, Saudi learners, strategic learning, strategy instruction, systematic review

**Cite as:** Alnufaie, M.R. (2022). Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review. *Arab World English Journal, 13* (2) 192-204 DOI: https://dx.doi.org/10.24093/awej/vol13no2.13

### Introduction

There is a huge corpus of studies exploring issues related to the difficulties that Saudi learners face in language learning. However, the main objective of this review article is to find out and discover how many effective interventions have been undertaken by Saudi researchers, how many instruments have been used to measure their effectiveness and what kind of strategies are taught in those interventions. These are the three main research questions of this systematic review. We need to determine what we can do to make our students strategic leaners with strategic competence.

As demonstrated from this review of literature, numerous studies have provided evidence for the importance of strategy instruction. However, researchers (Alzahrani, 2017; McMullen, 2009) have identified a paucity of studies in language learning strategy instruction in Saudi Arabia, and the importance of the current investigation comes from the fact that it aims to ascertain changes in the situation. In addition, previous reviews of studies in strategy instruction (Arhin & Opoku, 2020; Donker, de Boer, Kostons, Dignath van Ewijk & van der Werf, 2014; Plonsky, 2011) did not include studies from Saudi Arabia. By measuring how much this topic is addressed, researchers then can measure the effectiveness of strategy instruction, particularly in a Saudi context.

# **Literature Review**

The subject of "Language Learners' Strategies" was and still is an important topic of discussion in the field of second language learning and teaching. It has emerged as one of the research topics since the seventies of the last century and developed due to the need for global communication, and somewhat as a result of the revolutionary theories of Noam Chomsky and his view of language as an instinctive mental ability (Grenfell & Harris, 2017). The beginnings of research in this field were heavily involved in tracking and exploring the strategies of good language learners; assuming (albeit partially) that examples of good strategies could help poor leaners (Grenfell & Harris, 2017). From this point, the interest in strategy instruction started. However, as learning strategies vary, so do definitions of strategy instruction. Cohen (2005) addressed how experts vary in their thinking about Language Learning Strategy (LLS) terms. This might be related to the lack of general agreement on what strategies to introduce, when and how to introduce them, and who can introduce them. However, strategy instruction might be simply defined as classroom procedures where the teacher explicitly raises learners' awareness of their *own* learning strategies and incorporates LLSs and language use strategies in language teaching (Chamot, Barnhardt, El-Dinary, & Robbins, 1999; Oxford, 2011).

Strategy instruction has been clearly called for by LLS scholars and experts such as Donker et al. (2014), Oxford (1990), Grenfell and Harris (1999), Chamot (2009), Harris (2007), Macaro (2009), and Gu (2010) (cited in Oxford, 2011), Cohen (2011), and Veenman (2017). In addition, strategy instruction is essential in the notions of autonomy, learning how to learn, and self-directed learning (Rubin, 2001; Wenden, 1991, 2002; Zhang, 2008). Good strategy instruction is believed to have a positive impact on language learners' success, achievement, and proficiency (Alzahrani, 2017; Brown, Pressley, Van Meter, & Schuder, 1996; Cohen, 2011; Cubukcu, 2008; Grenfell & Harris, 1999, 2017; Macaro, 2001; Mizumoto & Takeuchi, 2009; O'Malley & Chamot, 1990; Oxford, 1990, 2011; Sengupta, 2000). However, this positive outlook on strategy instruction has been challenged by some researchers (Bialystok, 1990; Chularut & DeBacker, 2004; Dörnyei, 2005;

Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

Ellis, 2008; Kellerman, 1991; Rees-Miller, 1993; Rossiter, 2003). Kellerman (1991) wrote, "teach the learners more language and let strategies look after themselves" (p. 158). Similarly, Bialystok (1990) argued that "what one must teach students of a language is not strategy, but language" (p. 147). Consequently, researchers must do more strategy interventions to enrich the literature of this domain.

Strategy instruction is a demanding task. It requires administering various measures, such as pretests/posttests, experiment groups, ongoing assessments, thinking aloud, interviews, and portfolios to track how learners have incorporated strategy teaching into their regular learning (Cohen, 2005).

Many designs have been proposed for teaching strategies to students and conducting strategy instruction courses. The start might be with the Cognitive Academic Language Learning Approach (CALLA), which was developed by Chamot and colleagues in the mid-1980s (see Chamot, 2009). In addition, a course called Learning to Learn English: A Course in Learner Training was one of the first strategy-based instruction programs, and it was developed by Ellis and Sinclair (1989). Cohen and his team also conducted a well-known program in Strategy-Based Instruction (SBI) at the University of Minnesota in 2001. Another well-known program is Oxford's model for long-term strategy training, which was developed in 1990 and updated in 2006. There are other programs that are also well designed and conducted, such as the six-step cycle model of Grenfell and Harris (1999) and the cyclical model of Macaro (2001).

#### Methodology (A systematic Review)

The review was comprehensive and started from general to specific to carefully narrow down the search step by step (see Figure one), starting from strategy studies in academic journals from 1950 up to 2020 through the Saudi Digital Library. Then, the search was narrowed down to specific subject areas, as shown in the diagram below. After limiting the search to the geography of Saudi Arabia, articles that were not in language strategies were excluded after title screening. Next, articles were excluded after abstract and conclusion screening due to the following reasons: no strategy instruction, not in LLSs, and participants were not Saudi learners. A total of 17 articles investigated strategy interventions in language learning, and thus, were eligible for the review.

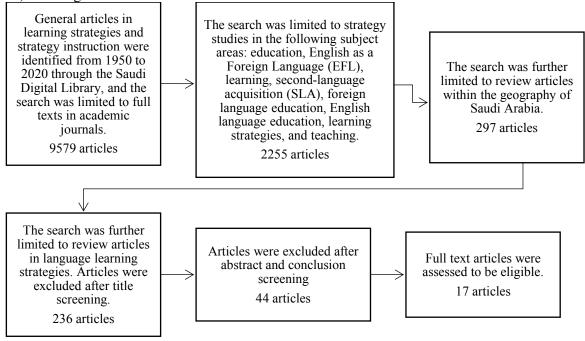


Figure 1. The review procedure

Arab World English Journal www.awej.org ISSN: 2229-9327 From an initial 297 records, 17 (5.7%) studies met the review criteria. This small number reflects the shortage of language learning strategy instruction in Saudi Arabia.

It was difficult to identify the eligibility of the articles for the review, as there is no clearcut definition for strategies and techniques, strategy instruction, and instructional strategies or classification model for teaching strategies. In addition, the contents of the lessons taught in most of those interventions were not described in detail. Studies in strategy interventions should explain exactly what they did and why if they are to be replicated or compared (Plonsky, 2011).

#### Results

#### **General Findings**

The reviewed articles were published in 12 journals, with three journals publishing more than one article: *Arab World English Journal* (n = 3), *Journal of English Language Teaching* (n = 3), and *Canadian Center of Science and Education* (n = 2). A total of 1477 individuals participated in the reviewed studies, of which 456 were female and 1021 were male, and of which 1435 were college/university students and 42 were elementary school students. The reviewed studies targeted different variables in their strategy instructions or interventions (see Table one). In addition, they targeted almost all language learning strategies except the affective and emotional strategies.

Taught strategies	Number of	Percentage
	studies	-
Writing strategies	2	12%
Reading strategies	7	41%
Speaking/Pronunciation and Communication	2	12%
strategies		
Social strategies	1	6%
Vocabulary/Spelling strategies	4	24%
Motivational strategies	1	6%
Total	17	100%

Table 1. Strategies taught in the reviewed studies

All of the reviewed studies (except Alrasheed, 2014) reported a positive effect of the strategy interventions, finding that the experimental group outperformed the control group in the dependent variables. However, only six reported a calculation for the effect size of their results (see Table two). Following Cohen (1988), the value of the effect size ( $\eta$ 2) was interpreted in the following way: 0.01: < 0.06 = small effect; 0.06: < 0.14 = medium effect, and  $\ge 0.14$  = large effect. As a result, based on the reported values in the six studies, the effect sizes of their affected variables were large.

 Table 2. Reported effect size in six of the reviewed studies

1 55	
Studies	Effect size of the affected variables after instruction
Alrabai (2016)	$(\eta_p^2 = 0.31, 0.38, 0.81)$
Ismaiel and Al Asmari (2017)	$(\eta^2 = 0.154, 0.149)$
Abdelhalim (2017)	$(\eta^2 = 0.45, 0.94)$
Khodary (2017)	$(\eta^2 = 0.894, 0.91)$
Alzubi and Singh (2018)	$(\eta^2 = 0.392)$
Alzubi et al. (2019)	$(\eta^2 = 0.622)$

Only Alzubi, Singh and Hazaea (2019) and McMullen (2009) followed one of the well-designed programs mentioned in the literature above. Another important observation was the length of instruction in almost all the reviewed studies. Listing the duration in weeks or months might be misleading, as the number and length of meetings can vary, which may cause differing results. The longest instruction among the reviewed studies was that of Khodary (2017), which lasted for 77 h over 11 weeks. The shortest was that of Alrasheed (2014), which was 4 h only.

Furthermore, some of the reviewed studies displayed contradictions between the findings and the drawings on the findings. An example of this is Alrasheed's study (2014). Although the study found no statistically significant differences in the effectiveness of the pre-reading strategies on reading comprehension, Alrasheed (2014) indicated in the conclusion that "the employment of pre-reading strategies is highly recommended" (p. 89). In addition, the similarity between the two studies of Alzubi et al. (2019) and Alzubi and Singh (2018) raises the issue of credibility. Those studies were conducted in the same year (2017–2018 fall academic year) and on the same students. The second study did not cite or even mention the first. In addition, some identical sentences appeared in these two studies and created confusion about the length of the instruction.

Moreover, there was an absence of authentic citations in one of the reviewed studies (Okasha & Hamdi, 2014). It investigated the effect of writing strategies without using a single authentic citation from that field. It also investigated the attitudes without referring to the validity and the reliability of the used instrument. In addition, there are other critical issues in the methodology of some of the reviewed studies that go beyond the scope of the current review.

## Research Methods Used in the Reviewed Studies

The designs of the reviewed studies were mostly quasi-experimental (n= 8) and experimental (n= 7). In addition, reliability of the instruments used were reported in 13 of the reviewed studies, leaving only four studies that did not mention anything about the reliability or the validity of their research instruments (Alqarni, 2018; Assiri & Siddiqui, 2020; Nahari & Alfadda, 2016; Okasha & Hamdi, 2014). The data collection methods adopted in the current reviewed studies, which used strategy instruction and interventions, are summarized in Table three.

Instruments for measuring dependent variables	Number of	Percentage	
	studies		
One (Survey tools or tests)	9	53%	
Two (Survey tools and tests)	6	35%	
Three (Survey, tests, and interview/observation)	2	12%	
Think-aloud Protocols	0	0	
Total Number of Studies	17	100	

Table 3. Research instruments	used in the reviewed studies
-------------------------------	------------------------------

As shown in Table three, half of the reviewed studies used only one research instrument for measuring the dependent variables of their strategy instruction. In addition, think-aloud protocols are absent in this category of language learning strategy research, despite being needed for studying the effectiveness of any strategy instruction. According to Green (1998), "Standard statistical procedures cannot be directly applied to the verbal report data" (p. 2). Think-aloud protocols allow participants to articulate their mental processes for more in-depth and detailed

Alnufaie

information. Moreover, none of the reviewed studies utilized standardized or global measures for all their dependent variables after teaching. Ismaiel and Al Asmari (2017) used Schmitt's (1997) taxonomy of vocabulary learning strategies to measure one of the dependent variables after teaching, and Alqarni (2018) used a tailored version of it. In contrast, McMullen (2009) used Oxford's Strategy Inventory for Language Learning (SILL) to collect data before instruction, so it is not related to the dependent variables after the instruction. Thus, it was difficult to make comparisons across the reviewed studies.

#### Discussion

All the studies presented in this review (except Alrasheed, 2014) found that strategy instruction has positive effects on learners' academic achievements. This is concordant with the findings of other reviews such as Arhin and Opoku (2020), Donker et al. (2014) and Plonsky (2011). Dispite this consensus and despite the fact that strategy instruction is a core area in the literature of language learning strategies (LLS), strategy-based instruction is still scarce in the context of Saudi language learning strategy research.

Due to the absence of a comprehensive theory in strategy instruction, the reviewed studies were developed based on personal discretion. This is concordant with Plonsky's (2011) finding that SBI studies are "based largely on convenience, intuition, and/or some level of idiosyncrasy" (p. 998). Only two studies reported following one of the well-designed modals of strategy instruction mentioned in the literature. Griffiths (2014) stated that strategy researchers should be careful and implement appropriate instruments and employ appropriate analysis techniques. This could be facilitated by observing a model of strategy instruction designed by experts in the field. Only one of the reviewed studies utilized a standardized measure for one of its dependent variables after instruction. Thus, it was difficult to make comparisons across the studies. As stated earlier, strategy instruction is a demanding task. It requires administering various measures, such as pretests/posttests, experiment groups, ongoing assessments, thinking aloud, interviews, and learner journals and portfolios, to track how learners have incorporated strategy training into their learning and to find out the relationship between strategy use and learning outcomes (Cohen, 2005).

## Conclusion

This paper employed a review of the related studies to determine how much language learning strategy instruction is addressed in strategy research in Saudi Arabia. In addition, it aimed to find out how many instruments have been used to measure the effectiveness of strategy instruction and what kind of strategies are taught. Few studies met the criteria, and those that did targeted different variables in their strategy instructions and developed based on personal discretion. The most taught strategies in the reviewed studies are reading strategies and then vocabulary/spelling strategies. The least taught strategies, however, are social and motivational strategies. The affective and emotional strategies are not taught in the reviewed studies. It is thus recommended that Saudi strategy researchers always include strategy instruction in their investigation for language learning strategies and calculate the duration of their instruction in hours. In addition, studies in strategy instruction should explain in detail what it is and why and how they conducted instruction. Most of the researchers in the reviewed studies used only one research instrument for measuring the dependent variables of their strategy instruction and used self-developed survey and tests. Strategy instruction is a demanding task. Therefore, future Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

strategy researchers who seek to study the effects of strategy instruction on language learning achievements should deploy mixed method design with different research instruments to assess the qualitative aspects of strategy use. In self-developed survey and tests, participants' performance might be unintentionally directed toward the instruments used (Donker et al., 2014). In addition, future research must deliver a clearer picture of intervention processes and procedures. The scope of the current review is articles in academic journals; therefore, theses and dissertations were not included. This might be worth considering in future research.

Finally, there is a significant increase in calls to integrate strategy instruction not only in strategy research and classroom activities, but also in teacher education programs (Grenfell & Harris, 2017; Griffiths, 2014; Assiri & Siddiqui, 2020; Kassem, 2019). Language learning strategy research and education policy makers in Saudi Arabia should take those calls seriously so that teachers can be made aware of the need to integrate strategy instruction into the content of their lessons and be educated on how this should be done.

#### About the Author

**Mohammad Alnufaie** is an assistent professor of English language education at Jubail English Language and Preparatory Year Institute, Royal Commission for Jubail and Yanbu, Saudi Arabia. He completed his PhD in Education at Dublin University under the supervision of Professor Michael Grenfell. He is mainly interested in language teaching and learning. ORCID ID: <u>https://orcid.org/0000-0003-0646-8539</u>

#### References

- Abdelhalim, S. M. (2017). Developing EFL students' reading comprehension and reading engagement: Effects of a proposed instructional strategy. *Theory and Practice in Language Studies*, 7(1), 37-48. DOI: <u>http://dx.doi.org/10.17507/tpls.0701.05</u>
- Alqarni, I. R. (2018). Awareness-raising of vocabulary learning strategies: Does it make a difference? Arab World English Journal, 9(3), 98-110. Retrieved from <u>https://awej.org/images/AllIssues/Volume9/Volume9Number3September2018/7.pdf</u>
- Alrabai, F. (2016). The effects of teachers' in-class motivational intervention on learners' EFL achievement. *Applied Linguistics*, *37*(3), 307-333. Retrieved from http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.869.9233&rep=rep1&type=pdf
- Alrasheed, H. S. (2014). Examining the effectiveness of pre-reading strategies on Saudi EFL college students' reading comprehension. *English Language Teaching*, 7(11), 79-91. Retrieved from <u>https://files.eric.ed.gov/fulltext/EJ1075955.pdf</u>
- Alsamadani, H. A. (2011). The effects of the 3–2-1 reading strategy on EFL reading comprehension. *English Language Teaching*, 4(3), 184-191. https://www.ccsenet.org/journal/index.php/elt/article/view/11890
- Alzahrani, I. (2017). Exploring the Effects of Language Learning Strategy Instruction on Saudi EFL College Students' Strategy Awareness and Proficiency, (Unpublished Doctoral dissertation). University of Southampton. Available at <u>https://eprints.soton.ac.uk/415533/</u>
- Alzubi, A. F., Singh, M. K., & Hazaea, A. N. (2019). Investigating reading learning strategies through smartphones on Saudi learners' psychological autonomy in reading context.

*International Journal of Instruction, 12*(2), 99-114. Available at <u>https://eric.ed.gov/?id=EJ1211053</u>

- Alzubi, A. F., & Singh, M. K. (2018). The impact of social strategies through smartphones on the Saudi learners socio-cultural autonomy in EFL reading context. *International Electronic Journal of Elementary Education*, 11(1), 31-40. Available at <u>https://www.iejee.com/index.php/IEJEE/article/view/587</u>
- Arhin, D. & Opoku, B. W. (2020). A Meta-Analysis on Effects of Mastery Learning Strategy (MLS) on Academic Achievements of Learners. *International Journal of Research* and Innovation in Social Science, IV(VII), 102-106. Retrieved from <u>https://www.rsisinternational.org/journals/ijriss/Digital-Library/volume-4-issue-7/102-106.pdf</u>
- Assiri, A. I. & Siddiqui, A. (2020). Interpretive reading as a strategy to construct meaning in EFL reading comprehension: A case study at King Khalid University. *Arab World English Journal*, *11*(2), 411-419. <u>https://dx.doi.org/10.24093/awej/vol11no2.28</u>
- Bialystok, E. (1990). Communication Strategies. Oxford, UK: Basil Blackwell.
- Brown, R., Pressley, M., Van Meter, P., & Schuder, T. (1996). A quasi-experimental validation of transactional strategies instruction with low-achieving second-grade readers. *Journal of Educational Psychology*, 88(1), 18-37. <u>https://doi.org/10.1037/0022-0663.88.1.18</u>
- Chamot, A. U. (2009). *The CALLA handbook: Implementing the cognitive academic language learning approach* (2nd ed.). White Plains, NY: Pearson Education.
- Chamot, A. U., Barnhardt, S., El-Dinary, P. B., & Robbins, J. (1999). *The Learning Strategies Handbook*. White Plains, NY: Addison Wesley Longman (Pearson).
- Chularut, P., & DeBacker, T. K. (2004). The influence of concept mapping on achievement, self-regulation, and self-efficacy in students of English as a second language. *Contemporary Educational Psychology*, 29(3), 248-263. <u>https://doi.org/10.1016/j.cedpsych.2003.09.001</u>
- Cohen, A. (2005). Coming to Terms with Language Learner Strategies: What do Strategy Experts think about the Terminology and where would they Direct their Research? Working Paper *Research Paper Series*, *12*. Research Paper Series. Auckland, NZ: Center for Research in International Education, AIS St. Helens. Retrieved from http://crie.org.nz/research-papers/Andrew%20Cohen%20WP12.pdf
- Cohen, A. D. (2011). Strategies in Learning and Using a Second Language. Harlow: Longman.
- Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed.). Hillside, NJ: Lawrence Erlbaum Associates.
- Cubukcu, F. (2008). Enhancing vocabulary development and reading comprehension through metacognitive strategies. *Issues in Educational Research, 18*(1), 1-11. Available at <u>https://www.iier.org.au/iier18/cubukcu.html</u>
- Donker, A. S., de Boer, H., Kostons, D., Dignath van Ewijk, C. C., & van der Werf, M. P. (2014). Effectiveness of learning strategy instruction on academic performance: A meta-analysis. *Educational Research Review*, 11, 1-26. <u>https://doi.org/10.1016/j.edurev.2013.11.002</u>
- Dörnyei, Z. (2005). *The Psychology of the Language Learner: Individual Differences in Second Language Acquisition*. Mahwah, NJ: Lawrence Erlbaum.

Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

- Ellis, G. & Sinclair, B. (1989). *Learning to Learn English Learner's Book: A Course in Learner Training*. Cambridge: Cambridge University Press.
- Ellis, R. (2008). The Study of Second Language Acquisition. Oxford: Oxford University Press.
- Green, A. (1998). Verbal Protocol Analysis in Language Testing Research: A Handbook. Cambridge: Cambridge University Press.
- Grenfell, M. & Harris, V. (1999). *Modern Languages and Learning Strategies: In Theory and Practice*. London: Routledge.
- Grenfell, M. & Harris, V. (2017). Language Learner Strategies: Contexts, Issues and Applications in Second Language Learning and Teaching. London; New York: Bloomsbury Academic.
- Griffiths, C. (2014). Language learning Strategy Instruction. *Journal of Applied Linguistics, 29*, 36-49. Available at <u>http://ejournals.lib.auth.gr/jal/article/view/8332</u>
- Harris, V. (2007). Exploring progression: Reading and listening strategy instruction with nearbeginner learners of French. *Language Learning Journal*, 35(2), 189-204. <u>https://doi.org/10.1080/09571730701599229</u>
- Ismaiel, N. M. & AlAsmari, A. (2017). The effectiveness of a program-based vocabulary learning strategies for developing English vocabulary for EFL female students at Taif University. Advances in Language and Literary Studies, 8(3), 113-125. <u>http://dx.doi.org/10.7575/aiac.alls.v.8n.3p.113</u>
- Ismail, N. M. & Tawalbeh, T. I. (2015). Effectiveness of a metacognitive reading strategies Program for Improving Low Achieving EFL Readers. *International Education Studies*, 8(1), 71-87. <u>https://doi.org/10.5539/ies.v8n1p71</u>
- Kellerman, E. (1991). Compensatory strategies in second language research: A critique, a revision, and some (non-)implications for the classroom. In R. Phillipson et al. (ed.), *Foreign/second language pedagogy research: A commemorative volume for Claus Færch* (pp. 142-161). Clevedon, England: Multilingual Matters.
- Khodary, M. M. (2017). Using the vocabulary self-collection strategy plus to develop university EFL students' vocabulary learning. *English Language Teaching*, 10(8), 135-144. <u>https://doi.org/10.5539/elt.v10n8p135</u>
- Kassem, H. M. (2019). The effect of communication strategy instruction on Saudi EFL learners' strategy use, speaking proficiency and self-efficacy. *Journal for the Study of English Linguistics*, 7(1), 21-44. <u>http://dx.doi.org/10.5296/jsel.v7i1.14649</u>
- Macaro, E. (2001). *Learning Strategies in Foreign and Second Language Classrooms*. London: Continuum.
- Macaro, E. (2009). Developments in language learner strategies. In V. Cook, & L. Wei (eds.), *Contemporary applied linguistics volume 1* (pp.10-36). New York, NY: Continuum. <u>http://dx.doi.org/10.5040/9781474211789.ch-001</u>
- Mahdi, H. S. (2019). Using multimedia-assisted LINCS for learning English pronunciation. International Journal of Emerging Technologies in Learning, 14(9), 105-117. http://dx.doi.org/10.3991/ijet.v14i09.10356
- McMullen, M.G. (2009). Using language learning strategies to improve the writing skills of Saudi EFL students: Will it really work? *System*, *37*(3), 418-433. http://dx.doi.org/10.1016/j.system.2009.05.001

Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

- Mizumoto, A., & Takeuchi, O. (2009). Examining the effectiveness of explicit instruction of vocabulary learning strategies with Japanese EFL university students. *Language Teaching Research*, 13(4), 425-449. <u>https://doi.org/10.1177/1362168809341511</u>
- Nahari, A.A., & Alfadda, H.A. (2016). From memorising to visualising: The effect of using visualisation strategies to improve students' spelling skills. *English Language Teaching*, 9(6), 1-18. <u>https://doi.org/10.5539/elt.v9n6p1</u>
- Okasha, MA. (2020). Using strategic reading techniques for improving EFL reading skills. *Arab World English Journal*, 11(2), 311-322. Retrieved from https://awej.org/images/Volume11/Volume11Volume11Numbe2June2020/22.pdf
- Okasha, M.A., & Hamdi, S.A. (2014). Using strategic writing techniques for promoting EFL writing skills and attitudes. *Journal of Language Teaching and Research*, 5(3), 674-681. <u>http://dx.doi.org/10.4304/jltr.5.3.674-681</u>
- O'Malley, J. & Chamot, A. (1990). *Learning Strategies in Second Language Acquisition*. Cambridge: Cambridge University Press. <u>https://doi.org/10.1017/CBO9781139524490</u>
- Oxford, R. L. (1990). *Language learning strategies: What every teacher should know*. Boston, Mass: Heinle & Heinle.
- Oxford, R. L. (2011). *Teaching and Researching Language Learning Strategies*. Harlow: Longman.
- Plonsky, L. (2011). The effectiveness of second language strategy instruction: A meta-analysis. Language Learning, 61(4), 993-1038. <u>https://doi.org/10.1111/j.1467-9922.2011.00663.x</u>
- Rees-Miller, J. (1993). A Critical Appraisal of Learner Training: Theoretical Bases and Teaching Implications. *TESOL Quarterly*, 27(4), 679-689. <u>https://doi.org/10.2307/3587401</u>
- Rossiter, M. J. (2003). The effects of affective strategy training in the ESL classroom. *TESL-EJ*, 7(2), 1-20. Available at <u>http://www.tesl-ej.org/wordpress/issues/volume7/ej26/ej26a2/</u>
- Rubin, J. (2001). Language learner self-management. *Journal of Asian Pacific Communication*, *11*(1), 25-37. <u>http://dx.doi.org/10.1075/japc.11.1.05rub</u>
- Schmitt, N. (1997). Vocabulary learning strategies. In N. Schmitt, & M. McCarthy (eds.), Vocabulary: Description, Acquisition and Pedagogy (pp. 199-228). Cambridge: Cambridge University Press. Available at https://www.scribd.com/document/339062146/Schmitt-n-1997-Vocabulary-Learning-Strategies-in-Schmitt-n-and-Mccarthy-m-Eds-Vocabulary-Description-Acquisitionand-Pedagogy-Cambridge-University
- Sengupta, S. (2000). An investigation into the effects of revision strategy instruction on L2 secondary school learners. *System*, 28(1), 97-113. <u>https://doi.org/10.1016/S0346-251X(99)00063-9</u>
- Veenman, M. V. J. (2017). Learning to self-monitor and to self-regulate. In R. E. Mayer & P. A. Alexander (eds.), *Handbook of research on learning and instruction*. 2nd (revised ed., pp. 233–257). New York: Routledge.
- Wenden, A. (1991). Learner Strategies for Learner Autonomy. Englewood Cliffs: Prentice Hall.
- Zhang, L. J. (2008). Constructivist pedagogy in strategic reading instruction: Exploring pathways to learner development in the English as a second language (ESL) classroom. *Instructional Science*, 36(2), 89-116. https://doi.org/10.1007/s11251-007-9025-6

Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

			Order of the F	Reviewed Stu		
Resea	Y	7 Partic	Purp	Le	Metho	Main
rcher	ear	ipants	ose of	ngth of	dology	findings
			strategy	instruction		
			taught			
McM	2	. 94	disco	W	Pre-	93.75
ullen	009	female and 71	ver the	hole	experimental:	% of the 16
		male college	advantages of	semester	SILL Strategy	students got
		students for	strategy		survey,	higher marks
		the survey, and	instruction on		questionnaire,	after the
		16 for the	writing.		pre-	training.
		instruction			post-writing	
					tasks and tests.	
Alsa	2		Test	6	Quasi-	The
madani	011	male college	the impacts of	weeks	experimental:	target group
		students	the 3-2-1		reading pre-	outpaced the
			reading		post-test.	control group
			strategy on			
			reading			
			comprehensio			
			n.			
Okas	2		Use	2	Quasi-	writi
ha and Hamdi	014	male college	strategic	months	experimental:	ng skills and
		students	writing		pre-post- test.	attitudes
			techniques to			improved
			promote			among the
			writing skills			target group.
4.1		16	and attitudes.			1:00
Alras	2		Dete	4	Quasi-	differ
heed	014	female college	rmine the effect of two	days	experimental	ences were
		students		(4	for two groups:	not
			pre-reading	h)	post-tests.	significant.
			strategies on reading			
			comprehensio			
Ismail	2	2 21	n. Dete	10	Quasi-	The
and Tawalbeh	015	female	rmine the	weeks (20	experimental:	experimental
and rawalbell	015	university	effect of	sessions)	pre-post-test,	-
		students	metacognitive	303510115)	strategy	group outpaced the
		Students	reading		questionnaire.	control group.
			strategies on		questionnune.	control group.
			low achievers			
			in reading.			
Alrab	2	437	Dete	10	Quasi-	Lear
ai	016	male students	rmine the	weeks	experimental:	ner motivation
			effects of six		questionnaire.,	increased,
					class	which led to
						achievement
			learner		post-tests.	levels in the
			icarner			
			motivation		post tests.	experimental
			pre-selected motivational strategies on		class observation pre-	which led to higher achievement

Appendix					
<b>Chronological Order of the Reviewed Studies</b>					

202

Alnufaie

Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

Alnufaie

				and			
				achievement.			
Nahar i and Alfadda	016	2	42 female elementary school students	Asce rtain the effect of using visualization strategies to improve spelling and attitudes.	5 weeks (4 5 min/week)	Experi mental and control group design: pre- post-tests, questionnaire.	The experimental group outpaced the control group.
Abdel halim	017	2	50 female college students	Asce rtain the impact of reading strategies in improving reading comprehensio n and engagement.	3 months (16 h)	Quasi- experimental: pre-post-test, survey, interviews.	The experimental group outpaced the control group.
Ismai el and Al Asmari	017	2	123 female college students	Disc over the impact of vocabulary learning strategies.	12 weeks	Experi mental and control group design; pre- post-test and questionnaire.	The experimental group outpaced the control group.
Khod ary	017	2	80 female students	Disc over the effect of using Vocabulary Strategy on improving vocabulary learning.	11 weeks (77 h)	Quasi experimental: pre-post-test.	The experimental group outpaced the control group.
Alzub i and Singh	018	2	70 male students	Dete rmine the impact of social strategies through smartphones on socio- cultural autonomy in reading context.	12 weeks	Experi mental and control group design: pre- post- questionnaire.	The target learners' socio- culturally autonomous features were promoted.
Alqar ni	018	2	29 male college students	Dete rmine the impact of strategy training on raising	5 weeks (5 h)	Pre- experimental: pre-post- questionnaire.	Ther e was a significant difference in the use of determination,

Language Learning Strategy Instruction in Saudi Arabia: A Systematic Review

Alnufaie

	[	I				. 1
			awareness on			memory, and
			40 vocabulary			cognitive
			learning			strategies.
			strategies.			
Mahd	2	45	Dete	2	Quasi-	The
i	019	male college	rmine the	weeks	experimental:	experimental
	•	students	effect of		pre-post-tests.	groups
		Statemes	traditional		pre post tests.	outpaced the
			and			control group.
			multimedia			control group.
			LINCS (List,			
			Identify,			
			Note, Create,			
			Self-test)			
			strategy on			
			learning			
			pronunciation			
Alzub	2	70	Dete	12	Experi	The
i et al.	019	male college	rmine the	weeks	mental and	dependent
		students	impact of		control group	variables were
			reading		design, pre-	promoted.
			strategies		post-	1
			through		questionnaire.	
			smartphones		1	
			on the			
			learners'			
			psychological			
			autonomy.			
Kasse	2	39	The	0	Experi	The
m	019	male college	impact of	ne semester	mental and	experimental
	019	students	communicati	(1 h/week)	control group	group
		students	on strategy		design; pre-	outpaced the
			instruction on		post-tests,	control group.
						control group.
			strategy use,		questionnaire,	
			speaking skill		strategy use	
			and self-		checklist.	
	-	25	efficacy.	0	<b></b>	
Assiri	2	35	The	8	Experi	The
and Siddiqui	020	male college	effect of	weeks	mental and	experimental
		students	reading		control group	group
			strategy on		design; pre-	outpaced the
			reading		post-tests,	control group.
			comprehensio		survey.	
			n.			
Okas	2	70	Dete	7	Quasi-	Strat
ha	020	male college	rmine the	weeks	experimental:	egic reading
		students	effect of the	(9	pre-post-	was effective.
			strategic	h)	questionnaire	
			reading on		and test.	
			reading			
			comprehensio			
			-			
			n.			