

In the name of Allah

Working Memory and Complexity, Accuracy and Fluency

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Abstract

The main purpose of the book was to examine the relationship between working memory capacity and complexity, accuracy, and fluency in Iranian L2 learner's oral production under pre-task planning conditions. A secondary purpose was to test the difference between high and low working memory participants in rehearsal, strategic, and no pre-task planning groups in their oral production in terms of complexity, accuracy, and fluency. To do so, 60 intermediate-level EFL learners participated in this book. At first, the participants were asked to complete the symmetry span test to measure their working memory capacity. Then, they were randomly assigned to one of three groups: rehearsal, strategic and no pre-task planning. The participant's were required to describe the pictures depicting a story, and their oral production was measured in terms of complexity, accuracy, and fluency. The results revealed that there was a significant correlation between accuracy and fluency of Iranian L2 learner's oral production and their working memory capacity, but there was no significant correlation between complexity of Iranian L2 learner's oral

production and their working memory capacity. In addition, the result indicated that in rehearsal, strategic, and no pre-task planning groups, the learners with high working memory capacity performed better than the learners with low working memory capacity in their oral production in terms of complexity, accuracy and fluency. The implications and suggestions for further research were outlined.

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