

# Concept Map Technique as a New Method for Whole Text Translation

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## Abstract

This study discusses the use of concept map tool as a new method for teaching translation (from English language to Arabic language). This study comprised 80 students divided into two groups. The first group was taught the new vocabulary by using the concept tool method, whereas the second group was taught the new vocabulary by the traditional method. Pre-test and test of homogeneity was administered in order to ensure the equivalence of the students. During the training, the two groups were subjected to evaluation tests (first, second and final) in which the students were asked to summarize text into a paragraph by translation. The differences between the two methods were compared by using t-test. Results of pre-test indicated that the difference between the two groups was not significant and the scores were linearly distributed. Results of students' scores between the two groups for the first exam was not significant, however, the difference between the two groups for second, final and total scores was significant. It was seen that the introduced method of text translation improves the student skills compared with the traditional method.

**Keywords:** learning, translation, skills and concept mapping

## 1. Theoretical Background

Students who learn English as a foreign language read word by word in their attempt to understand the meaning of text without deciding which words are the most important to help in understanding the whole text (Kim and Clariana, 2015; Kathleen, 2013). In the traditional method of teaching, the teachers train students to employ whatever techniques that may help them to extract general meaning of the text (Kaplan and Norton, 1996 and Lawson et al., 1998). Foreign language teachers' methods varied and they were dependent on the way in which approach emphasized different language skills (Miller, 2007). Prevailing approaches to foreign language teaching are influenced by contemporary trend in linguistics (Langacker, 2001). Little attention was given to the techniques that could help students to develop their skills in translation of English text into another language (Meyer, 2001). Concept map tool is a web-based, online version that runs on all modern web browsers. It is designed to be utilized from a desktop or laptop and is not meant to be used by web browsers on tablets and smart phones that rely on tapping (Dagenais et al., 2012). Concept maps are graphical tools for organizing and representing knowledge. They include concepts, usually enclosed in circles or boxes of some type, and relationships between concepts indicated by a connecting line linking two concepts (Tomson, 1997). Words on the line, referred to as linking words or linking phrases, specify the relationship between the two concepts (Chang, 2011). Translation performance can be improved when the methods and strategies are specifically targeted and taught with the purpose of developing the empirical research based on translation and interpreting studies (Yingjun, 2014). The objective of this study is to investigate the effectiveness of concept map method of teaching vocabulary translation on student achievements compared with traditional method.

## 2. Method

The study sample consisted of selected 80 students and they were grouped into two. Then a pre-test and test of homogeneity was administered in order to ensure the equivalence of the students. The first group was taught the new paragraph by using the traditional method (word by word translation of English to Arabic language), whereas the second group was taught the text translation by the concept tool method for a semester. During the training, the two groups were subjected to evaluation tests (first, second and final). The differences in the students' achievements after training by the two methods were compared by using t-test. Experiment design by using concept map tools that were used in the study is shown in figure1. Students were asked to summarize the

text into a paragraph with translation

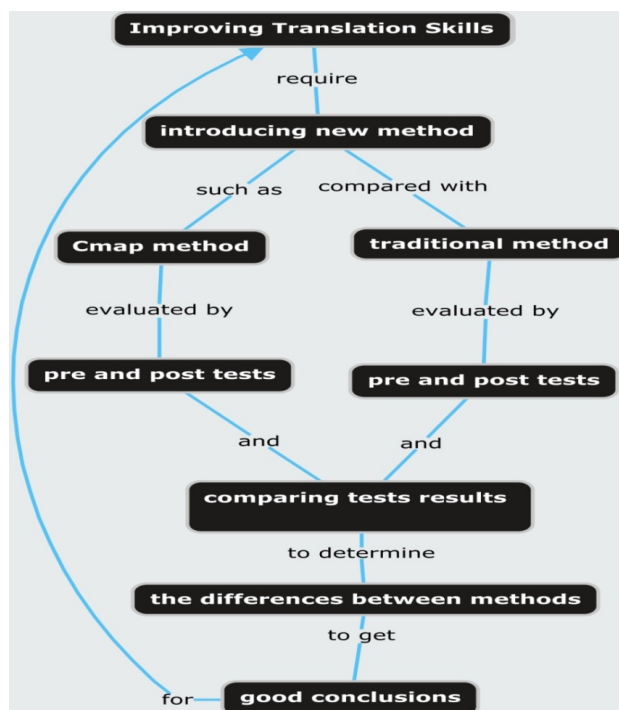


Figure1. Experiment design by using concept map tool that was used in the study

### 3. Results

The equivalence of students was determined by pre-test and test of homogeneity. Table 1 shows the mean scores of the two groups of students for the pre-test exam, the difference between the two groups was not significant and the scores were linearly distributed.

Table 1. Mean scores of the two groups of students in the pre-test exam and the test of homogeneity

Group	No of students	Mean scores of Pre-test	Test of homogeneity
Group 1 (traditional method)	40	11.83	value was > 0.05
Group2 (concept map method)	40	11.21	The difference is not significant. Scores was linearly distributed

#### 3.1 Student Scores of First Exam

A one-hour post test was conducted for Group 1 (traditional method) and Group 2 (concept map method), the differences in the students' achievements of two methods were compared by using t-test (Table 2). The difference between the two groups (traditional and concept map method was not significant, and the mean scores were 13.6% and 15.2% respectively.

Table 2. The scores of the learners in the first exam after traditional and concept map method training

Group	No of students	Mean scores of first exam (25%)	t- test
Group 1 (traditional method)	40	13.6a*	value was > 0.05
Group 2 (concept map method)	40	15.2a	The difference between two groups was not significant

\*According to t-test, the difference between two groups was not significant.

### 3.2 Student Scores of Second Exam

A one-hour post test was conducted for Group 1 (traditional method) and Group 2 (concept map method), the differences of students' achievements of two methods were compared by using t-test, (Table 3). The mean scores of group 2 (concept map method) students (17.7%) was significantly higher than that of group 1 (traditional method) students (11%).

Table 3. The second exam scores of traditional and concept map method

Group	No of students	Mean scores of second exam (25%)	t- test
Group 1 (traditional method)	40	11.0a*	value was < 0.05
Group2 (concept map method)	40	17.7b	The difference between two groups was significant

\*According to t-test, the difference between two groups was significant.

### 3.3 Student Scores of Final Exam

A two-hour post test was conducted for Group 1 (traditional method) and Group 2 (concept map method) samples. The differences in the students' achievements after their training in the two methods respectively were compared by using t-test (Table 4). Students mean scores of concept map method (31.5%) was significantly higher than that of traditional method (25.3%).

Table 4. Final exam scores of the learners in the traditional and concept map method

Group	No of students	Mean scores of final exam (50%)	t- test
Group 1 (traditional method)	40	25.3*	value was < 0.05
Group2 (concept map method)	40	31.5b	The difference between two groups was significant

\*According to t-test, the difference between two groups was significant.

Total Students' scores: The mean of total students' scores in the two methods is shown in Figure 2. It can be seen that the difference between the two groups was highly significant; and the mean value of all the students' scores for traditional and concept map methods was 49.4% and 64.4% respectively.

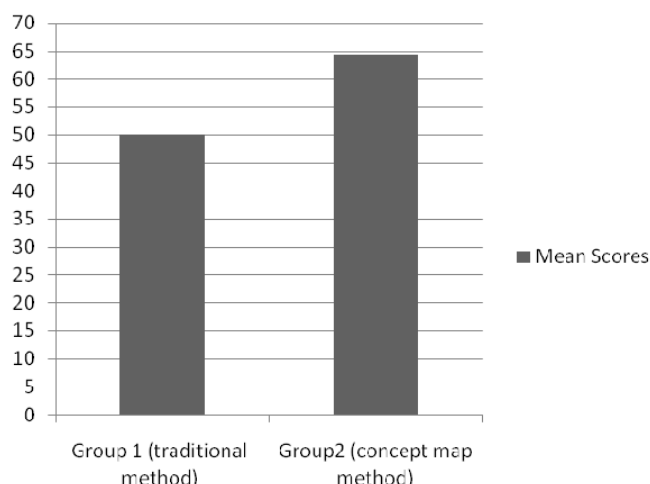


Figure 2. The mean value of total students' scores in the two methods of learning translation (traditional vs. concept map method)

#### 4. Discussion

The statistical analysis of t-test, which shows the differences between the two groups, implies that the acquisition of comprehensive and translation skills of the students of group 2 who were taught by concept map method was improved when compared to the other group taking into consideration the pre-test of the two groups. This result shows that concept mapping has positive effects in text comprehension and translation skills when compared with students taught by traditional method of translation (word by word text translation). The same results were obtained by Chang et al. (2002) who demonstrated that English as a foreign language learners who use concept maps have achieved much better learning results than those who did not (Mahnamand, 2012) which means that the use of this worthwhile tool helps students to develop, one way or another, their receptive (reading & listening) or productive (writing & speaking) skills. The teachers play an important role in developing the skills of the students during their training using the tool. (Gruber, 1993; Service, 1993; Laviosa, 2014). Also students used concept maps to deal with information, and they understand that when concepts are placed in order, some words are more inclusive than others and concepts are connected to each other by means of linkers, which improve their teaching skills (Richardson, 2006; Kobayashi, 2001). Second language learning is facilitated when learners are engaged in interaction and meaningful communication using concept map method (Ponniah, 2010).

#### 5. Conclusion

Concept mapping has positive effects in text comprehension which may help students in building translation skills and to distinguish the essential from the accessory when reading texts acquire instrumental skills for meaningful translation. The use of concept maps would be an appropriate method for improving translation skills for students. The use of concept maps in the schools will be beneficial for most of the students.

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