



**UNIVERSITI TEKNOLOGI MARA**

**THE EFFECTIVENESS OF USING 'MAGIC BOX' IN TEACHING  
MULTIPLICATION IN MATHEMATICS SUBJECT FOR SLOW  
LEARNER AMONG YEAR 5 PUPILS: A CASE STUDY IN SEKOLAH  
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## ABSTRACT

Action research is conducted to enhance the skills level multiplied by recovering from hundred to twenty and thirty to sa. This study was conducted in one primary school in Sri Aman, Sarawak. The respondents of 6 which comprises four boys and two girls. The design of this study is to review the actions of two compartment model based on Kurt Lewin study. Treatment of this study focused on mastering multiplication process involves gathering again using the counter Multiplication Magic Box (Magic Box). The instrument used was through observation, questionnaires, pre-test and post-test. Initial survey was implemented through the review of homework, observations during the learning process and pre-test in connection with such skills. Data were analyzed using quantitative methods. The findings show that the achievement of 33.33% in the first compartment increases to 83.33% in the second compartment. With this, showing that the numerator Magic Box which is used to increase the level of mastery of multiplication skills involving regrouping.

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## CHAPTER ONE

### INTRODUCTION

#### 1.0 Introduction

In Malaysia, Mathematic has been widely used in various sectors. The importance of the counting is proven in educational system in which, Mathematic is made as a compulsory subject at all level of education along with the Malay as the National Language. In school system, the score of the subject will determine the path of the subsequent study. The research is done to investigate the problem that students facing in multiplication, method of multiplication and multiplication aids for Mathematic subject. The topic has been selected based on situation in Malaysia which will be discussed later in the next chapter.

In the process of developing the students, the schools become the main medium to disseminate all the knowledge and skills to the students. Within the schooling system, the teachers are the people who execute the policies from the ministry of education and carrying out the curriculum set by ministry by the mean of teaching. The teachers are clearly can be concluded as the medium; who are responsible in shaping the students since they are the people who directly teach the students. All the policies, objectives and curriculum set depend on the teachers and from this standpoint the teachers are the most influential factors in determining students' performance. The influence of teachers' effectiveness in teaching process on students' performance has been the focus of several studies (Noor Shah Saad, 2005: 182; Ainun Bariah Binti Jaafar ,2012; Zutaut, A.K ,2002; D'Ettore J. ,2009; Furner & Duffy ,2002). The studies carried out by the researchers mentioned exhibit that effective teaching is the major influence on students' academic performance.

## **CHAPTER 2**

### **LITERATURE REVIEW**

#### **2.0 Introduction**

This chapter discusses the previous studies and opinions related to the field of study. Discussion also focused on problems in learning multiplication, skills to improve and the technique of multiplication magic box.

#### **2.1 Related Literature Review**

##### **2.1.1 Technique of multiplication magic box**

Many students are facing the problems in learning the multiplication skills in mathematics. This is caused by the pupils problem in the times tables. The researcher also reviewed the problems that existed when the method is applied in solving problems involving multiplication. Five participants are involved in this study. The instruments used in this study are Pre-Test, Post Test, Progressive Test, interviews, observations, and documents. The data collections were analysed descriptively. The results showed that the magic box method brought a positive impact on student achievement in times tables 6 to 9, multiplication skills and attitudes. The findings also shows that there are five problems that exist due to the application of magic box method in learning multiplication which are (1) participants confused about the direction of counting small parcels while searching the answer using the magic box, (2) participants confused where to start writing the number in constructing the magic box, (3) the number in the box that should be written in small number was written in big number, (4) the participants are careless in the process of