



**UNIVERSITI TEKNOLOGI MARA**

**THE EFFECTIVENESS OF USING "LOGICAL  
PARAMETER" METHOD TO IMPROVE PUPIL'S  
MASTERY IN ANSWERING QUESTIONS SCIENCE  
SECTION B ABOUT CONTROLLING VARIABLES:  
A CASE STUDY AMONG YEAR 6 PUPIL'S AT SK  
LUBOK ANTU/REBAN, SERIAN, SARAWAK.**

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## **ABSTRACT**

This action research is a form of research studies conducted to improve student proficiency in answering the questions of the variables, especially the manipulated variables and responding variables using the "Logical Parameter". A total of 11 students from Year 6 of SK Lubok Antu / Reban, Serian involved in the study. Information was collected through questionnaire, pretest and post test. Questionnaire given shows the demographic of respondent and attitude and interest of them about science. Post-test results showed an increase in the percentage of pre-test scores compared to all respondents. "Logical Parameter" method can solve the problem of student proficiency in answering questions of variables, improve student achievement in science subjects and increasing student interest in the answer section B. Hopefully this action research to improve the quality of teaching and learning practices of students in mastering the answer questions about variables very well.

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## CHAPTER 1

### INTRODUCTION

#### 1.0 Introduction

According to Hussain and Brahim (2006), Malaysia realized the process of modernization and its rapid industrial development depended on the progress of science and technology acquired from science education in schools. The Malaysian Ministry of Education (MOE) has decided to introduce the sciences to pupils as early as Year 1 in an effort to increase the interest in science and technology among pupils. At the same time, it also serves as a skill preparation work for achieving Vision 2020. Thus, pupils are now given the opportunity to better understand the phenomena around them and explain such occurrence scientifically. Therefore, a strong foundation in scientific knowledge and attitudes as well as good values are being given to pupils in order to prepare them to learn science at higher level.

The primary school science curriculum emphasizes the mastery of scientific thinking skills as well as the comprehension of scientific principles. The science curriculum is also meant to cultivate scientific attitude and good values in order to create progressive Malaysian citizen with balanced intellectual, spiritual, emotional and physical qualities. According to Anglo, 2002, the emphasis is meant to be placed on mastering Science Process Skills (SPS) rather than memorizing mere facts and scientific principles because a SPS will last after memorized facts become obsolete or forgotten.

Science is a compulsory subject in primary and secondary school curriculum. These subjects is that science should be able to meet the needs of individual growth and development of the physical, emotional , spiritual and

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