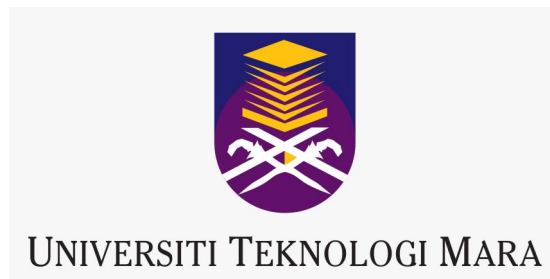


**UNIVERSITI TEKNOLOGI MARA**



**STRATEGIES TO INCREASE MASTERY  
OF SCIENCE PROCESS SKILLS IN SECTION B  
UPSR'S SCIENCE PAPER: A CASE STUDY OF YEAR 6 PUPILS  
IN SEKOLAH KEBANGSAAN MATANG JAYA,  
PADAWAN, SARAWAK.**

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## ABSTRACT

This study was carried out to findings the strategies to increase mastery of science process skills in Section B of UPSR's science paper, at Sekolah Kebangsaan Matang Jaya, Padawan, Sarawak. The respondents for this study were 20 moderate achievers from Year Six pupils and also 5 science teachers. The researcher used the quantitative research method, through questionnaires and open-ended questions to collect the data. The questionnaires that were used to collect the data that were divided into two categories: pupils and teachers. Each questionnaire has two sections: Section 1 and Section 2. The data collected in Section 1 was on the respondents' demographic profile while the data in Section 2 was to gather understanding of science process skill by the pupils and the teacher's problems in teaching science subject and their suggestion to improve pupils' science process skill. The 20 pupils were asked to sit for a similar science Section B test paper, to get both pre-test and post-test results. The result of this study shows that the science process skills improved pupils perform in the science papers. It can be concluded that the strategies introduced by the teachers had help the pupils to mastery the questions in Section B of UPSR's science paper.

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## CHAPTER 1

### INTRODUCTION

#### 1.0 Introduction

In recent years the country's education system has been a concern and debate, parents are placing high expectations and employers expressed concern about the ability of the education system to prepare the younger generation are adequate to meet the challenges of the 21st century. Thus, in October 2011, the Ministry of Education has implemented a review of the country's education system as a whole in an effort to develop a new Education Development Plan. The plan draws on the vision of the education system and students who can meet the needs of the country in the future. Pupils' mastery of the science process skills can help realize the vision and mission of the education system.

Science Process Skills controlling interest can be seen through various studies conducted to focus on active student participation in learning science and emphasis on science process skills. Science Process Skills should also be integrated with cognitive development into the main pulse in science education, (Abraham & Millar, 2008). Learning that emphasize science process skills can provide vast opportunities and stimulate higher order thinking, (Chin & Kayalvizhi, 2005).

Scientific skills are an important principle in the process of teaching and learning science. Scientific skills consist of Science Process Skills and Manipulative Skills. Science Process Skills consists of Basic Science Process Skills and Integrated