

## **IMPROVING PUPILS AUTOMATICITY ON THE BASIC MULTIPLICATION FACTS USING FLASH CARDS AND SPEED TESTS**

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This study focused on the improvements of the pupil's automaticity on basic multiplication facts in mathematical problems or activities presented in mathematics classes at Jose Rizal University (JRU). Most educators have been aiming for pupils or learners to respond immediately to mathematical problems or activities done in the classroom, and this has been their main concern and interest for the past decades because some learners are not responding well in class. To find answers to this primary concern of educators in the country especially at JRU, a careful observation was made and strategies and activities were presented to identify problems. An intervention was used through various methods, like speed test and use of flash cards, to the selected sections of grade 3 pupils. Based on findings, the intervention helped the pupils to increase their scores on the post-test and pre-test that impact their performance and Grade Point Average. Other findings show that pupils enjoyed doing speed tests and using flashcards. Results and findings gathered during the study can be used or be adopted to provide improved quality education to the learners especially in JRU.