Investigating Mathematics Learning and Achievement of Students with Hearing Impairment: The Case of Menelik II Preparatory School

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This is to certify that the thesis prepared by Ananiya Abebe, entitled: Investigating Mathematics Learning and Achievement of Students with Hearing Impairment and Submitted in partial fulfillment of the requirements for the degree of master of education complies with the regulations of the university and meets the accepted Standards with respect to originality and quality.

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ACRONYMS AND ABBREVIATIONS

dB – decibel

EGSECE – Ethiopian General Secondary Education Certification Examination

FDRE – Federal Democratic Republic of Ethiopia

GRI- Gallaudet Research Institute

HI – Hearing Impaired /Impairment

LSC- Listening and Spoken language Method of Communication

MOE – Ministry of Education

NCTM - National Council of Teachers of Mathematics

SC - Simultaneous Communication

SL- Sign language

SD = Standard Deviation

Sig – Significant

TGE – Transitional Government of Ethiopia

UNESCO – United Nations, Education, Science & Cultural Organization.

Abstract

Investigating Mathematics Learning and Achievement of Students with Hearing Impairment: The case Menelik II Preparatory School.

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The purpose of this study was to assess mathematics learning and achievement of students with hearing impairment. Descriptive survey research design was used for this study. The study was carried out in Menelik II preparatory school. The study sample comprised 4 mathematics teachers, 4 interpreters and 40 students with hearing impairment. Data was collected by use of questionnaires, observation and document analysis. It was analyzed and presented using descriptive statistics (frequency distribution, mean score, percentages and standard deviation) and t-test and multiple regressions. This study found out that :- most of the respondents were a profound hearing impaired without other family members with hearing impairment, some of the respondents/students hear conversation very slightly and a few of them hear sound very slightly, most of the respondents' parents were with no formal education except for some who were certificate or diploma and degree holders, teachers do not use an appropriate methods of teaching, time on task was found to be inadequate, teachers are in trouble to use sign language, teachers never covered the syllabus content in the stipulated time and students with hearing impairment had low mathematics achievement. This study recommends: to give training on methods of teaching, to use tutorial program, to use more instructional time and to give sign language training.