

## C - METHODS OF ENQUIRY

### Research methods; testing and evaluation.

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| 1. | Name of Institution            | - University of Papua and New Guinea .   |
|    | Title of Project               | - INTERACTION IN A FORM I CLASSROOM  |
|    | Name of Person and Designation | - <u>Dr. G. A. Trevaskis</u> - Senior Lecturer in Education.   |
|    | Main Aim of Project            | - To determine the suitability of the Flanders Interaction Analysis system as an instrument to describe differences in interaction in four subjects taught in a Form I Classroom.  |
|    | Description                    | - The study was a pilot study designed to describe the interaction of four subject teachers of a Form I class in a Papuan and New Guinean high school and to be the basis for more extensive studies on the differences between interaction in social science classrooms and other subject classrooms. |
|    | Date of Commencement           | - August, 1970 .   |
|    | Date of Completion             | - October, 1970. Part 2 of the project to be conducted July-August, 1971 .   |
|    | Source of Finance              | - Department of Education, Konedobu.   |
|    | Method of Publication          | - Reports submitted to Research Branch, Department of Education, Konedobu, Territory of Papua and New Guinea.  |
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| 2. | Name of Institution  | - Department of Education, University of Hong Kong.  |
|    | Title of Project     | - MODERN EXAMINING   |
|    | Name of Person       | - <u>Dr. Norman K. Henderson</u> and group of examiners.   |
|    | Description          | - An analytical and critical account of examining techniques, with examples, and specially applied to the Hong Kong school examination system. |
|    | Date of Commencement | - September, 1969.   |
|    | Source of Finance    | - Department of Education, University of Hong Kong.  |

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3. Name of Institution - Department of Educational Psychology & Foundations of Education, National Institute of Education, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi, 16, India.
- Title of Project - DEVELOPMENTAL NORMS PROJECT FOR THE AGE GROUP 5½-11 YEARS
- Names of Persons and Designations - Dr. (Mrs.) P.H. Mehta, Head, Department of Educational Psychology and Foundations of Education, National Institute of Education;  
Miss Indira Malani, Reader;  
Mrs. Updesh Kaur Bevli, Lecturer;  
Mr. H.M. Kannade, Senior Research Assistant;  
Miss Chitra Sachadeva, Professional Assistant.
- In collaboration with:  
Dr. N.V. Tirtha, Professor and Head of Department of Postgraduate Studies in Education, Bangalore 9;  
Dr. E.G. Parameswaran, Professor and Head of Department of Psychology, Osmania University, Hyderabad;  
Dr. A.K. Singh, Professor and Head, Postgraduate Department of Psychology, Ranchi University, Ranchi;  
Dr. S.V. Kale, Professor and Head of Department of Applied Psychology, University of Bombay;  
Dr. E.I. George, Professor and Head of Department, Department of Psychology, University of Kerala;  
Dr. B.B. Chatterji, Professor of Psychology and Education, Gandhian Institute of Studies, Varanasi.
- Main Aim of Project - To understand the development of Indian children in the age group 5½ to 11 years, in order to improve the process of education.
- Description - This study investigates the relationship between environmental variables (home and school) and levels of school achievement, cognitive development and social maturity of Indian children of grades I, II and V.  
The core study, being conducted by the Department of Educational Psychology and Foundations of Education, will investigate the inter-relationship of all the variables, whereas the studies being conducted by the six collaborating centres will each investigate a different aspect.

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Date of Commencement	- June, 1970.
Expected Date of Completion	- March, 1975.
Source of Finance	- Funds of National Council of Educational Research & Training.
Method and Anticipated Date of Publication	- The research reports from all the seven centres will be intergrated and published as a research monograph, probably in 1976.
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4. Name of Institution	- Department of Educational Psychology, Makerere University, Kampala, Uganda.
Title of Project	- CONSTRUCTION AND APPLICATION OF INTELLIGENCE TESTS
Name of Person and Designation	- <u>Hamed El-Abd</u> , Professor of Educational Psychology and Head of Department.
Description	- The norms of the Oliver Test are in the process of being revised for application in East Africa. The Lule Non-Verbal Intelligence Test, revised by the writer for application in Africa, has been used in educational research and is available. The General Verbal Ability Test, devised by the writer, has been applied in the schools and is also available.
Date of Commencement	- November, 1965.
Date of Completion	- Research continuing.
Source of Finance	- Department of Educational Psychology and Institute of Education, Makerere University.
Method and Anticipated Date of Publication	- In journals and departmental monographs.
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5. Name of Institution	- Department of Educational Psychology, Makerere University, Kampala, Uganda.
Title of Project	- THE SEVEN DASHES TEST
Name of Person and Designation	- <u>Hamed El-Abd</u> , Professor of Educational Psychology and Head of Department.
Description	- A test of figural content was constructed consisting of seven dashes. Subjects were asked to draw as many different patterns, figures or symbols as they could in a limited amount of time using seven dashes of whatever length they desired. Information about the activities and interests of the subjects is thereby obtained. Divergent production of figural units was tentatively identified in a preliminary

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		manipulation of the responses led to the conclusion that the responses depended heavily on experience and learning.
Source of Finance	-	Department of Educational Psychology and Institute of Education, Makerere University.
Date of Commencement	-	1966.
Expected Date of Completion	-	1972.
Method and Anticipated Date of Publication	-	In journals and departmental monographs.
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6.	Name of Institution	- Department of Educational Psychology, Makerere, University, Kampala, Uganda.
	Title of Project	- THE COGNITION OF BEHAVIOURAL UNITS (FACES) IN EAST AFRICAN STUDENTS
	Name of Person and Designation	- <u>Hamed El-Abd</u> , Professor of Educational Psychology and Head of Department.
	Description	- The main purpose of this investigation was to construct an African facial expression test to ascertain whether the cognition of behavioural units (faces) is to be found in the East African cultures. A preliminary test of twenty-four items was constructed. After two trials, using a sample of B.Ed. University students, the test was reduced to eleven items and the cognition of behavioural units (faces) was identified in an East African sample. This test is similar to another Western faces test constructed by the writer in 1963.
	Date of Commencement	- 1966 .
	Date of Completion	- March, 1971 .
	Source of Finance	- Department of Educational Psychology and Institute of Education, Makerere University.
	Method and Anticipated Date of Publication	- In journals and departmental monographs.
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7.	Name of Institution	- Department of Educational Psychology, Makerere University, Kampala, Uganda.
	Title of Project	- THE MATHEMATICAL ABILITY OF EAST AFRICAN STUDENTS
	Name of Person and Designation	- <u>Hamed El-Abd</u> , Professor of Educational Psychology and Head of Department.
	Description	- A three-part study of mathematical aptitude in secondary school students was



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completed. The first part found significant correlations between the Ballard Test of Arithmetic Reasoning and marks from teachers' examinations in English and mathematics. The one hundred item Ballard Test was divided into three equivalent shorter forms. The second part was an analysis of group factors in mathematical ability using thirteen tests and mathematics examination marks. Factors with some relation to the maths. examination marks were the numerical factor and the general reasoning factor. The third part was a factor analysis of the thirteen tests and themaths. exam.. The maths. exam. marks were found to relate to the numerical facility factor , the deductive reasoning factor and the visualization factor. The other factors were word fluency, clerical ability, spatial ability, and verbal reasoning.

Date of Commencement	- November, 1965.
Date of Completion	- February, 1971.
Source of Finance	- Department of Educational Psychology and Institute of Education, Makerere University.
Method and Anticipated Date of Publication	- In journals and departmental monographs.

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8. Name of Institution	- Department of Educational Psychology, Makerere University, Kampala, Uganda.
Title of Project	- THE CONSTRUCTION AND APPLICATION OF AN ACADEMIC APTITUDE TEST PAPER FOR THE SELECTION OF MATURE AGE ENTRANTS TO THE UNIVERSITY OF EAST AFRICA
Name of Person	- <u>Ronald Francis Clarke.</u>
Description	- An academic aptitude test was constructed to aid in the first stage of selection of mature age applicants to the University. It was applied and revised in 1968 and 1969. As an eliminator, the test was found to be reasonably reliable and efficient. Its power to predict rank order success, however, was found to be low, although the verbal part of the test was found to predict academic achievement better than the test as a whole. The main advantage of using the A.A.T. paper in candidate selection was found to be its capacity to test certain abilities, apart from passing examinations, important in university life,

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		such as perception of relationships, semantic discrimination, problem-solving and accuracy.
Date of Completion	-	April, 1971.
Source of Finance	-	Private.
Method and Date of Publication	-	Main Library, Makerere University, Kampala. April, 1971.
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9.	Name of Institution	- Department of Educational Psychology, Makerere University, Kampala, Uganda.
	Title of Project	- INVESTIGATION AMONG UGANDAN CHILDREN OF SOME ASPECTS OF PIAGET'S THEORY
	Name of Person and Designation	- <u>B. Otaala</u> , Senior Lecturer.
	Main Aim of Project	- To investigate the extent to which earlier results of experiments on Piaget's theory, obtained from testing Iteso children of Uganda, can be replicated in other parts of Uganda.
	Description	- The investigator has done some work on the development of operational thinking in Iteso primary school children. This is to be repeated on a larger scale with children from other regions of Uganda.
	Date of Commencement	- April, 1971.
	Expected Date of Completion	- March, 1973.
	Source of Finance	- Being sought.
	Method and Anticipated Date of Publication	- Probably as a monograph towards the end of 1973.
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10.	Name of Institution	- Department of Educational Psychology, Makerere University, Kampala, Uganda.
	Title of Project	- THE APPLICATION OF OBJECTIVE TESTS FOR ASSESSING ACADEMIC ACHIEVEMENT IN SCIENCE
	Name of Person and Designation	- <u>Allan C.E. Sanders</u> .
	Description	- An investigation into the assessment of the abilities measured by different methods of testing science achievement. A comparison of abilities required for answering questions of the conventional essay type and the objective multiple-choice type is made in physics and chemistry on a sample of secondary two students. Factor analyses suggest that reasoning ability and general intelligence

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	are the most important abilities for achievement in science at the academic level tested.
Date of Completion	- 1970.
Source of Finance	- Private.
Method and Date of Publication	- Main Library, Makerere University, 1970.
Name of Institution	- Department of Educational Psychology, Makerere University, Kampala, Uganda.
Title of Project	- THE APPLICATION OF CATTELL'S 16. P.F. QUESTIONNAIRE TO EAST AFRICAN STUDENTS See E 14
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11. Name of Institution	- University of Malawi, Soche Hill College.
Title of Person	- <u>F.G. Lockwood.</u>
Main Aim of Project	- To produce a battery of tests which can be used to select those male pupils who have passed the primary school leaving certificate and who are eligible for entrance to technical courses (by technical courses I refer to woodwork, metalwork, technical drawing) offered at certain secondary schools in Malawi.
Description	- The initial work involved the selection of various tests which could be combined and modified to produce a battery of tests for the prediction of technical aptitude. An attempt was made to select tests which had: (a) been tried out in other African countries with successful results and (b) those which were supposedly "culture free". Certain other factors were kept firmly in mind while the selection of tests was being made. viz. 1. That any test selected would need to be administered on a large scale and would need the minimum of instructions and supervision. 2. That tests should be mainly of a "paper and pencil" type and avoid complicated apparatus and equipment. 3. That the cost of tests be kept to a minimum; if possible merely to

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the cost of paper and printing.

4. That ease and speed of marking were desirable but not essential.

Some tests had to be discarded because the cost of purchasing copies of these was too high. Others were discarded because of possible difficulties in their administration.

Eventually fifteen tests, which were thought to fulfill all the necessary requirements, were selected.

After this preparatory work, a pilot study into the feasibility of such a predictive battery of tests was carried out, which involved the testing of a selected group of pupils within a secondary school who were studying technical subjects. The predictive nature of the selected tests will be established by correlating the pupils' scores on the tests against their performances throughout the year (As indicated by course work and examination marks in technical subjects.) The fifteen selected tests were administered to these Form I pupils at Soche Hill Secondary School and Chichiri Secondary School, who took technical subjects.

These tests were marked and the scores correlated with the pupils' performances in technical subjects over two terms.

From the results obtained, seven tests were discarded as being poor predictors of technical ability and were administered to a larger sample in five secondary schools (5 schools, sample of 340 pupils). These tests have been marked. I am now waiting for information about performances in the actual subjects. This is to be based on course work, marks and examination results over two terms. From this additional information, I hope to produce a final predictive battery of tests.

Date of Commencement	- November, 1969.
Expected Date of Completion	- January, 1972.
Sources of Finance	- 1. Research Grant from the University of Malawi. 2. Grant from the Regional Testing Centre, Limbe, Malawi (USAID - AIR).

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Method and Anticipated Date of Publication	- Extracts to be offered to: "Education in Eastern Africa".
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12. Name of Institution	- Test Development & Research Office of West African Examinations Council, Lagos.
Title of Project	- DIFFERENTIAL WEIGHTING IN WEST AFRICAN SCHOOL CERTIFICATE EXAMINATION
Name of Person and Designation	- <u>Dr. S.S.A. Akeju</u> , Principal Research Officer.
Main Aim of Project	- To investigate the effect of regression differential weighting on candidates' grades in school certificate.
Description	- Taking teachers' estimates as a valid appraisal of pupils' abilities, the estimates obtained in biology from several Nigerian schools in December 1969 were transformed to the same scale and used as criterion variables to obtain regression weights for three biology part scores in the 1969 examination. The weights were used to predict school certificate grades in biology, and the predicted grades compared with those actually awarded in 1969.
Date of Commencement	- January, 1970.
Expected Date of Completion	- July, 1971.
Method and Anticipated Date of Publication	- TEDRO research notes.
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13. Name of Institution	- Test Development & Research Office of West African Examinations Council, Lagos.
Title of Project	- THE READER-RELIABILITY OF G.C.E. ENGLISH COMPOSITION PAPERS
Name of Person and Designation	- <u>Dr. S.S.A. Akeju</u> , Principal Research Officer.
Main Aim of Project	- To determine the reader-reliability of the essay tests currently used in West Africa.
Description	- The essay scripts of 100 candidates were a randomly selected from some 1,600 such papers from the examination held in Ghana in June 1970. The papers were xerox copied and assigned to named examiners to mark independently. The marks awarded to each paper by various examiners were compared.
Date of Commencement	- June, 1970.

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Expected Date of Completion	- June, 1971.
Method	- Per journal.
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14. Name of Institution	- Test Development & Research Office of West African Examinations Council, Lagos.
Title of Project	- SAMPLE-FREE TEST CALIBRATION OF TEDRO TRIAL TEST ITEMS.
Name of Person and Designation	- <u>Dr. S.S.A. Akeju</u> , Principal Research Officer.
Main Aim of Project	- To determine whether TEDRO test calibration can be independent of the ability characteristics of the group used for item analysis.
Description	- The answer card of the 1969 TEDRO trial tests in arithmetic were recovered after the conventional scoring had been done. These cards were rescored and item analysed using the sample-free model. The item characteristics obtained from the two approaches will be compared and the differences between tests built from the two models identified.
Date of Commencement	- December, 1969 .
Expected Date of Completion	- December, 1971 .
Method	- Per journal. TEDRO research notes.
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15. Name of Institution	- West African Examination Council, Lagos, Nigeria.
Title of Project	- TESTING ENGLISH AS A SECOND LANGUAGE
Name of Person	- <u>Dr. A.I. Fiks</u> , Acting Head, Research Dept..
Main Aim of Project	- To develop a test of English reading comprehension for non-native speakers of English, using pre-scaled test items. The test may prove useful in the operational assessment of English skills as well as in language research.
Description	Having collected a large pool of sentences from United States newspapers and magazines, a group of experts in the field of teaching English as a foreign language independently rate each item on a 10 point scale; the data for acceptable sentences are converted into

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interval-scale measurements such that numerically equal distances between two test scores correspond to empirically equal differences in English proficiency.

- Date of Commencement - 1968.  
Expected Date of Completion - 1972.  
Source of Finance - Un-sponsored .  
Method of Publication - Published as test with technical manual .

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16. Name of Institution - Test Development & Research Office, West African Examinations Council, Lagos, Nigeria.  
Title of Project - THE SYSTEMIC FEEDBACK FUNCTION OF SCHOOL CERTIFICATE/GCE OBJECTIVE TEST RESULTS  
Name of Person and Designation - Dr. A.I. Fiks, Acting Head, Research Department.  
Main Aim of Project - To analyze a method whereby objective scholastic achievement results may be used to improve the quality of teaching in the educational system of Nigeria.  
Description - Proposal to the Nigerian Office of the West African Examinations Council to provide yearly error feedback from objective SC/GCE results to individual schools and to each State by syllabus topic, so as to pinpoint weak areas in the curriculum for improvement the following year; consideration of absolute, normative, and ipsative feedback models.  
Date of Commencement - 1971.  
Expected Date of Completion - 1971 .  
Source of Finance - US Agency for International Development.  
Method and Anticipated Date of Publication - Research note, 1971.

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17. Name of Institution - Test Development & Research Office, West African Examinations Council, Lagos, Nigeria.  
Title of Project - AUDIO RECORDING OF SPOKEN ENGLISH AND MECHANICAL INFORMATION SUBTESTS OF ID BATTERY

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Names of Persons and Designations	- <u>Dr. A.I. Fiks</u> , Acting Head, Research Department; <u>Miss A.A. Agboro</u> , Testing Officer, Aptitude Testing Department.
Main Aim of Project	- To standardize testing conditions further by eliminating intra and inter examiner variation in reading the test questions.
Description	- Tape recording of 40 -item 1D-16 (SPK) and 56-item 1D-7 (MEC) including instructions using West African voice; determination of the feasibility of tape test presentation; examination of suitability of existing norms based on "live" presentation.
Date of Commencement	- 1971.
Expected date of Completion	- 1971.
Sources of Finance	- US Agency for International Development and West African Examinations Council.
Method and Anticipated Date of Publication	- Research note, 1971.
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18. Name of Institution	- Test Development & Research Office, West African Examinations Council, Lagos, Nigeria.
Title of Project	- POTENTIAL ABILITIES (PAT.)
Names of Persons and Designations	- <u>Dr. A.I. Fiks</u> , Acting Head, Research Department; <u>T.O. Oyerinde</u> , Research Fellow.
Main Aim of Project	- Develop an aptitude test battery for manpower and educational selection, suitable for use in developing countries.
Description	- Development of PAT battery to be used as alternate forms for existing I-D Tests. The format, the instructions, and the norms are tailored for use in West Africa.
Date of Commencement	- 1970.
Expected Date of Completion	- 1971.
Source of Finance	- US Agency for International Development.
Method and Anticipated Date of Publication	- Research report, 1971.

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| 19. | Name of Institution                        | - Test Development and Research Office, West African Examinations Council, Lagos, Nigeria.  |
|     | Title of Project                           | - VALIDITY OF UNIVERSITY SERIES SELECTION TESTS IN NIGERIA  |
|     | Names of Persons and Designations          | - <u>Dr. A.I. Fiks</u> , Acting Head, Research Department;<br><u>U.H. Akpabio</u> , Research Fellow.  |
|     | Main Aim of Project                        | - To examine the usefulness of objective tests for university student selection.  |
|     | Description                                | - Investigation of concurrent validity of eight subtests (verbal, quantitative, and science) for two criteria (class of degree and rating by major professor); exploration of certain biographical factors. |
|     | Date of Commencement                       | - 1970 .  |
|     | Expected Date of Completion                | - 1971 .  |
|     | Source of Finance                          | - US Agency for International Development.  |
|     | Method and Anticipated Date of Publication | - Research note, 1971.  |
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| 20. | Name of Institution            | - Department and Institute of Education, University of Ibadan, Nigeria.   |
|     | Title of Project               | - STUDENT PROBLEM INVENTORY (SPI) FORM S  |
|     | Name of Person and Designation | - <u>Dr. C.G.M. Bakare</u> , Lecturer in Educational Psychology.  |
|     | Description                    | - A large pool of test items concerning the personal problems of secondary school pupils are assembled and statistically screened. 120 problems from eleven major problem areas are then included in the final form of the SPI. A manual is provided to guide test users. |
|     | Date of Commencement           | - January, 1970 .   |
|     | Date of Completion             | - February, 1971 .  |
|     | Source of Finance              | - None .  |
|     | Method and date of Publication | - Published by the Department & Institute of Education, University of Ibadan. 1971.   |
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| 21. | Name of Institution | - Department and Institute of Education, University of Ibadan, Nigeria. |
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Title of Project	- STUDY HABITS INVENTORY (SHI) FORM S
Name of Person and Designation	- <u>Dr. C.G.M. Bakare</u> , Lecturer in Educational Psychology.
Main Aim of Project	- To construct and validate a study habits inventory for use in counselling African students.
Description	- Study habits which discriminate between high and low scholarship students are assembled into the final form of the SHI. A manual is provided for guiding test users.
Date of Commencement	- January, 1970.
Date of Completion	- February, 1971.
Source of Finance	- None.
Method and Date of Publication	- Published by the Department and Institute of Education, University of Ibadan. 1971.
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22. Name of Institution	- Department and Institute of Education, University of Ibadan, Nigeria.
Title of Project	- MOTIVATION FOR OCCUPATIONAL PREFERENCE SCALE (MOPS)
Name of Person and Designation	- <u>Dr. C.G.M. Bakare</u> , Lecturer in Educational Psychology.
Main Aim of Project	- To construct and validate a scale for identifying an individual's motivation for preferring or choosing a particular occupation.
Description	- Items in the following four areas: external influence; extrinsic reward; self-expression and people-orientation are included in the MOPS to identify an individual's motives or value-orientations with regard to choice or preference for an area of work.
Date of Commencement	- January, 1970.
Date of Completion	- February, 1971.
Source of Finance	- None.
Method and Date of Publication	- Published by the Department and Institute of Education, University of Ibadan. 1971.
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23. Name of Institutions	- Njala University, Sierra Leone, and Test Development & Research Office of West African Examinations Council, Lagos.
Title of Project	- TESTING AND EVALUATION IN EDUCATION

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Names of Persons and Designations	- <u>Dr. R.O. Ohuche</u> - Senior Lecturer, Njala University; <u>Dr. S.S.A. Akeju</u> - Principal Research Office, Test Development and Research Office.
Main Aim of Project	- To provide a textbook in testing and measurement for students in the various colleges, and for undergraduate education and psychology students.
Description	- A small and handy text consisting of seven chapters plus appendices.
Date of Commencement	- 1970.
Expected Date of Completion	- April, 1971.
Date of Publication	- 1971.
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24. Name of Institution	- Department of Adult Education, Ontario Institute for Studies in Education, Toronto, Canada.
Title of Project	- TESTING GENERAL ENGLISH PROFICIENCY AMONG ADULTS IN IN-SERVICE TRAINING SITUATIONS IN ACCRA, GHANA
Name of Person and Designation	- <u>L.O. Denys</u> - Doctoral Candidate at O.I.S.E., Toronto, Canada.
Main Aim of Project	- To assess the discriminatory power of the Alan Davies English Proficiency Test Battery (1964) in Accra in-service training situations where English is the second language.
Description	- In 1970, 143 Ghanaians making up the following eight groups; bank clerks, secretaries in training (two groups), military officer cadets, engineers, office managers, second year university linguistic students, and social welfare officers, were tested on the Davies Language Proficiency Battery. Secondly, training officers made subjective rank order assessments of the trainees' oral English proficiency and more objective rank order assessments of the trainees' written English proficiencies and general academic performances. Thirdly, by

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means of a questionnaire, personal data were obtained on the trainees' language backgrounds, levels of formal schooling and working histories. By various statistical analyses, including rank and order correlations, analysis of variance and suitable multiple comparison techniques, the author hopes to assess the discriminatory power of the Davies Battery in Accra, (while pointing out the linguistic reservations about using the battery) as well as making comparisons to the results reported by other users of the battery such as Sen (NFER, 1970).

Date of Commencement	-	Early 1970.
Expected Date of Completion	-	Late 1971.
Source of Finance	-	At the time of testing, the author was engaged as an associate research fellow at the University of Ghana under the auspices of the Canadian International Development Agency.
Method and Anticipated Date of Publication	-	Journal articles and possibly a monograph, 1971.

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Name of Institution	-	Department of Adult Education, Ontario Institute for Studies in Education, Canada.
Title of Project	-	INTERNATIONAL CERTIFICATE IN ADULT EDUCATION: A FEASIBILITY STUDY  See M 10

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25. Name of Institution	-	Institute of Education, University of Sind, Hyderabad, Pakistan.
Title of Project	-	THE CONSTRUCTION OF TESTS FOR SECONDARY SCHOOL PUPILS
Names of Persons	-	<u>Dr. Rashid;</u> <u>A. Shah;</u> <u>Mr. Misbahuddin.</u>
Main Aims of Project	-	1. The construction of an achievement test battery for secondary school pupils.

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2. The development of a general ability test for secondary school pupils.
- The two projects will contribute to the promotion and popularization of the objectives of testing in Pakistan.
- The realization of aim No. 1 will enable teachers to make a comprehensive assessment of pupils' achievements in school subjects.
- The realization of aim No.2 will help in measuring the level of general intelligence of pupils at the high school level. The proposed test will be based on two factors, i.e. verbal reasoning and numerical ability. It is expected that this simple device will match with any general ability test based on many factors, such as memory, judgment, classification, etc.
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