

## C - METHODS OF ENQUIRY

### Research methods; evaluation procedures

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| 1. | Name of Institution            | - School of Education, University of the South Pacific, Suva, Fiji.  |
|    | Title of Project               | - EDUCATIONAL TESTING.   |
|    | Name of Person and Designation | - <u>R.C. Honeybone</u> - Professor of Education.  |
|    | Main Aim of Project            | - The School of Education has been given the of looking into the possibility of developing improved measures for educational assessment and selection in Fiji.   |
|    | Description                    | - Of prime importance is the development of a test of general ability. The normal test construction problems of developing countries are increased by the necessity to ensure that of test variance in the two major racial groups (Melanesian and Indian) are not too dissimilar. Initial results indicate that further problems may also be added by maturational and developmental differences, between urban and rural groups.<br><br>We have started one research project in the field of Educational Testing and will be setting up an assessment unit at the beginning of 1970. |
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| 2. | Name of Institution            | - Monash University, Australia.   |
|    | Title of Project               | - CLASSIFICATION AND ORDERING SKILLS IN YOUNG CHILDREN.   |
|    | Name of Person and Designation | - <u>Miss Mary Creighton Nixon</u> - Senior Lecturer.   |
|    | Main Aim of Project            | - (i) to establish whether test material used with Australian children could be used with indigenous children in the Territory of Papua - New Guinea;<br>(ii) if so, to obtain data for comparison purposes;<br>(iii) to apply findings to methods of teaching subjects in which the use of 'logical systems' is necessary. |
|    | Description                    | - The first aim was investigated by testing standards (iii) Tolai children in the Gazelle Peninsula in New Britain on a cross classification task. They were able to carry this out at about the level of 7 years old white Australian children. The work has not proceeded further.  |
|    | Date of Commencement           | - February, 1968.   |

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Expected Date of Completion	- No data available at present.
Source of Finance	- T.P.N.G. Education Department.
Method and Anticipated Date of Publication	- An interim report has been presented to the T.P.N.G. Education Department.
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3. Name of Institution	- University of Papua and New Guinea.
Title of Project	- EVALUATION OF TEACHING AND LEARNING MATERIALS IN ENGLISH.
Name of Persons and Designation	- <u>Miss N. Ridgway</u> - Research Assistant, Educational Materials Centre. <u>Mrs. M. Roe</u> - Supervisor, and <u>consultants</u> .
Main Aim of Project	- To develop instruments to evaluate teaching and learning materials in English, particularly in the teaching of English as a second language, and to provide guidelines for field trials.
Description	- The development of preliminary evaluation forms for the range of teaching and learning materials in English - textbooks, supplementary readers, reading material, tapes and discs, films and film loops, etc. Forms used to determine the immediate use of the material in Papua and New Guinea, or where modification is necessary.
Date of Commencement	- March, 1969.
Expected Date of Completion	- August, 1969, but continuing with next stages.
Source of Finance	- University of Papua and New Guinea.
Method and Anticipated Date of Publication	- Not applicable.
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4. Name of Institution	- University of Papua and New Guinea.
Title of Project	- EVALUATION OF TEACHING AND LEARNING MATERIALS IN SCIENCE.
Name of Persons and Designation	- <u>Professor Ernest Roe</u> - Professor of Education; <u>Mrs. M. Roe</u> - Supervisor, Educational Materials Centre; <u>A. Williams</u> - Unesco Science Adviser; and <u>consultants</u> .
Main Aim of Project	- To develop instruments to evaluate teaching and learning materials in science and to provide guidelines for field trials.
Description	- The development of preliminary evaluation forms for all kinds of teaching and learning materials for science received by the Educational Materials Centre - books, films and film loops, tapes and discs, apparatus and activity kits, models, etc. Forms used

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- to determine immediate use of material for Papua and New Guinea, or where modification is necessary.
- Date of Commencement - October, 1968.
- Expected Date of Completion - March, 1969, but continuing with next stages.
- Source of Finance - University of Papua and New Guinea.
- Method and Anticipated Date of Publication - Not applicable.
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5. Name of Institution - University of Papua and New Guinea.
- Title of Project - EVALUATION OF TEACHING AND LEARNING MATERIALS IN THE SOCIAL SCIENCES.
- Name of Persons and Designation - Professor Ernest Roe - Professor of Education;  
Dr. G.A. Trevaskis - Senior Lecturer;  
Mrs. M. Roe - Supervisor, and consultants.
- Main Aim of Project - To develop instruments to evaluate teaching and learning materials in the Social Sciences received by the Educational Materials Centre - books, films and film loops, slides and transparencies, tapes and discs, etc. Forms used to determine immediate use of material for Papua and New Guinea, or where modification is necessary.
- Date of Commencement - March, 1969.
- Expected Date of Completion - June, 1969, but continuing with next stages.
- Source of Finance - University of Papua and New Guinea.
- Method and Anticipated Date of Publication - Not applicable.
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6. Name of Institution - University of Papua and New Guinea.
- Title of Project - THE SCHOOL BROADCAST AS RESOURCE MATERIAL FOR EDUCATION IN PAPUA AND NEW GUINEA.
- Name of Person and Designation - Dr. G.A. Trevaskis - Senior Lecturer in Education.
- Main Aim of Project - To develop an evaluation instrument to (i) predict the effectiveness of the tape of a school broadcast, and (ii) determine its wider use as resource material in education in Papua and New Guinea.
- Description - The development of an instrument to evaluate the tape of a school broadcast and to suggest its use as a teaching and learning material in other levels of primary, secondary, technical/vocational, and tertiary education, as well as in educational activities carried out

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- by other government departments - Public Health, Agriculture, District Administration, etc.
- Date of Commencement - April, 1969.
- Expected Date of Completion - May, 1969, but continuing study by the Centre.
- Source of Finance - University of Papua and New Guinea.
- Method and Anticipated Date of Publication - Not applicable.
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7. Name of Institution - University of Papua and New Guinea.
- Title of Project - THE TAPE AS TEACHING AND LEARNING MATERIAL IN HEALTH EDUCATION PROGRAMMES.
- Name of Person and Designation - Dr. G.A. Trevaskis - Senior Lecturer in Education.
- Main Aim of Project - To evaluate existing taped material for use in training programmes of the Department of Public Health for nurse assistants, first-aid post orderlies, etc.
- Description - At the request of the Division of Medical Training, the Educational Materials Centre has prepared a questionnaire for completion by all tutor sisters engaged in health education programmes at the major training hospitals in the country. The findings are the bases for the preparation of tapes for training purposes.
- Date of Commencement - May, 1969.
- Expected Date of Completion - July, 1969.
- Source of Finance - Department of Public Health.
- Method and Anticipated Date of Publication - Not applicable.
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8. Name of Institution - Department of Education, University of Hong Kong.
- Title of Project - EDUCATIONAL RESEARCH IN HONG KONG.
- Name of Persons and Designation - Dr. Norman K. Henderson and W. Fisher-Short.
- Description - A summary of the sampling methods and types of school populations involved, and other social and local issues in pursuing social research, of special use for reference by educational research personnel in Hong Kong.
- Date of Commencement - June, 1969.
- Expected Date of Completion - December, 1970.

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Source of Finance	- Department of Education, University of Hong Kong and private sources.
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9. Name of Institution	- Department of Education, University of Hong Kong.
Title of Project	- MODERN EXAMINING.
Name of Person and Designation	- Group of Local Examiners.
Description	- A summary and analytical and critical account of examining techniques, with examples and specially applied to Hong Kong's school examination system.
Date of Commencement	- September, 1969.
Expected Date of Completion	- June, 1971.
Source of Finance	- Department of Education, University of Hong Kong.
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10. Name of Institution	- National Council of Educational Research and Training, India.
Title of Project	- CO-OPERATIVE TEST DEVELOPMENT PROJECT - INTELLIGENCE TEST.
Name of Persons and Designation	- <u>Dr. (Mrs.) Uma Sinha</u> - Reader, <u>Dr. K. Kulandaivel</u> - Principal, Sri Ramakrishna Mission Vidyalaya Teachers College, Coimbatore, <u>Dr. (Mrs.) K. Pramanik</u> - Principal, <u>Institute of Education for Women</u> , Calcutta, <u>Dr. N.P. Pillai</u> - Professor of Education, Kerala University, Kerala.
Main Aim of Project	- The main aim of the project is to develop four group tests of intelligence each with a parallel form and partial overlap for the ages 7+ to 9+, 9+ to 11+, 13+ to 16+ and 11+ to 13+.
Description	- Four tests each with a parallel form from the above four age levels are being developed. There is an overlap of age between the two consecutive age levels. This is to develop one scale of intelligence from 7+ to 16+ by scaling the adjacent level tests so that prediction of the scores on later tests may be made on the basis of scores on earlier tests. The tests are for Verbal Educability Factor. They will thus be verbal and quantitative items so that they give two separate scores for V and N in addition to one general score. The tests are being developed in three languages, i.e. Malayalam, Tamil and Bengali. Later on the tests will be adopted to other Indian languages so that we have intelligence tests at national level.

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Date of Commencement	- November, 1966.
Expected Date of Completion	- March, 1971.
Source of Finance	- Funds of N.C.E.R.T.
Method and Anticipated Date of Publication	- The report will be published by NCERT sometime during 1971.

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11. Name of Institution	- National Council of Educational Research and Training, India.
Title of Project	- CO-OPERATIVE TEST DEVELOPMENT PROJECT - INTEREST INVENTORY.
Name of Persons and Designation	- <u>Dr. (Mrs.) Uma Sinha</u> - Reader, <u>Professor B. Krishnan</u> - Professor of Psychology, Mysore University, <u>Professor M. Y. Bhide</u> - Vice-Principal, Sadhna School of Educational Research and Training, Bombay. <u>Dr. B. De</u> - Director, Bureau of Educational and Vocational Guidance, Patna, <u>Mr. V.G. Jhingran</u> - Principal, D.S. College, Aligarh.
Main Aim of Project	- To develop a vocational Interest Inventory with scales for a number of occupations.
Description	- The vocational interest inventory which is being developed is for the age group 14-25. The inventory is not on any existing model. New types of items are being tried. 13 occupational areas, namely Social Services, Economics, Secretarial, Administrative, Technical, Outdoor Physical, Scientific, Linguistic Literary, Arts and Entertainment, Protective, Educational, Medical and Religious have been taken into account while developing the items. Scales for only eight to ten such occupations which are likely to absorb relatively larger numbers of individuals will be developed.
Date of Commencement	- November, 1966.
Expected Date of Completion	- March, 1971.
Source of Finance	- N.C.E.R.T. funds.
Method and Anticipated Date of Publication	- The preliminary report will be published by the NCERT some time in 1971.

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12. Name of Institution	- National Council of Educational Research Training, India.
Title of Project	- DIFFERENTIAL APTITUDE TESTS.
Name of Persons and Designation	- <u>Mrs. S. Shukla</u> - Reader, <u>P.M. Patel</u> - Lecturer, <u>J.P. Mittal</u> - Technical Assistant.

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Main Aim of Project	- To develop a Differential Aptitude Test Battery for the Hindi-speaking region for allocation of students to various courses being offered at the higher secondary stage.
Description	- It is planned to improve upon and standardize a series of tests - already developed initially in one of the States in India for a small geographical region - in verbal, numerical and spatial abilities for students of age group 13 to 14. The initial spade work has already been done. This battery would be standardized for the entire Hindi-speaking region. Differential validity would be made available to the users.
Date of Commencement	- March, 1969.
Expected Date of Completion	- March, 1972.
Source of Finance	- NCERT funds.
Method and Anticipated Date of Publication	- 1973.
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13. Name of Institution	- Department of Educational Psychology, Makerere University College, Uganda.
Title of Project	- THE INTELLECT OF EAST AFRICAN STUDENTS.
Name of Person and Designation	- <u>Hamed El-Abd</u> - Professor of Educational Psychology and Head of Department.
Description	- Investigation based on the assumption that the structure of intellect is independent of race and religion, but dependent on education and experience, was conducted using an East African sample from undergraduates and high school certificate students.
Date of Commencement	- November, 1965.
Expected Date of Completion	- Research continuing as long as funds are available.
Source of Finance	- (a) The Nuffield Foundation, through authorization by the Institute of Education, Kampala. (b) Makerere University College Research Grant.
Method and Anticipated	- Mimeographed reports are produced at present by the Educational Psychology Department. Funds are anticipated in the future to make possible printed booklets of the research material.
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14. Name of Institution	- Department of Educational Psychology, Makerere University College, Uganda.
Title of Project	- THE MATHEMATICAL ABILITY OF EAST AFRICAN STUDENTS.

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Name of Person and Designation	- <u>Hamed El-Abd</u> - Professor of Educational Psychology and Head of Department.
Description	- A battery of various mental ability tests was selected to investigate the mathematical aptitude of junior secondary school students.
Date of Commencement	- November, 1965.
Expected Date of Completion	- Research continuing as long as funds are available.
Source of Finance	- (a) The Nuffield Foundation, through authorization by the Institute of Education, Kampala. (b) Makerere University College Research Grant.
Method and Anticipated Date of Publication	- Mimeographed reports are produced at present by the Educational Psychology Department. Funds are anticipated in the future to make possible printed booklets of the research material.
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15. Name of Institution	- Department of Educational Psychology, Makerere University College, Uganda.
Title of Project	- THE PERSONALITY OF EAST AFRICAN STUDENTS.
Name of Person and Designation	- <u>Hamed El-Abd</u> - Professor of Educational Psychology and Head of Department.
Description	- Investigation was carried out using the I.P.A.T. Sixteen Personality Factor Questionnaire developed by R.B. Cattell and others. The aim was to investigate possible significant deviations in East African personality factors from American standards.
Date of Commencement	- November, 1965.
Expected Date of Completion	- Research continuing as long as funds are available.
Source of Finance	- (a) The Nuffield Foundation, through authorization by the Institute of Education, Kampala. (b) Makerere University College Research Grant.
Method and Anticipated Date of Publication	- Mimeographed reports are produced at present by the Educational Psychology Department. Funds are anticipated in the future to make possible printed booklets of the research material.
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16. Name of Institution	- School of Education, University of Botswana, Lesotho and Swaziland, Lesotho.
Title of Project	- EVALUATION OF SUCCESS OF UPGRADING PROGRAMME FOR UNQUALIFIED PRIMARY SCHOOL TEACHERS.
Name of Person and Designation	- <u>Professor J.D. Turner</u> - Director, School of Education.

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Description	- An attempt is being made to test the effectiveness of an upgrading course for unqualified primary school teachers. The course consists of a series of three 3-week courses at annual intervals, together with assignment work during the remainder of the year. Two intakes have now completed the course and it is hoped to discover to what extent the project has been successful.
Date of Commencement	- 1968.
Expected Date of Completion	- 1970.
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17. Name of Institution	- The West African Examinations Council, Lagos, Nigeria.
Title of Project	- FEASIBILITY OF THE MRC 1501 ANSWER CARD.
Name of Person and Designation	- <u>Dr. D.J. Fitch</u> - Technical Adviser.
Main Aim of Project	- To investigate the feasibility of using the 1501 in West Africa.
Description	- To investigate the feasibility of using the 1501 in West Africa, the Research Evaluation, and Statistical Analysis Section has designed a study. The Measurement Research Corporation has provided 1501 answer cards of a standard design. These were used in the States of Northern Nigeria to administer a form of the CEE. The same test was administered in other schools using the 1230 sheet. The study will allow us to compute test-retest and parallel forms reliability using each document and thereby make an important comparison.
Date of Commencement	- July, 1969.
Expected Date of Completion	- December, 1969.
Source of Finance	- W.A.E.C. and USAID.
Method and Anticipated Date of Publication	- TEDRO Report December, 1969.
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18. Name of Institution	- West African Examinations Council, Lagos, Nigeria.
Title of Project	- FORCED CHOICE RATING FORMS.
Name of Persons and Designation	- <u>Dr. D.J. Fitch</u> - Technical Adviser, <u>Dr. S.A. Akeju</u> - Principal Research Officer.
Main Aim of Project	- To develop a forced choice rating form for nurses.
Description	- With the usual rating procedure one is asked to evaluate the ratee in terms of his position

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on several trait scales. Typically such scales have five points. One might be asked to say if the ratee were (a) very hard working (b) moderately hard working (c) average (d) moderately lazy or (e) very lazy. The main trouble with such a rating form is that he can make a ratee "look good" or "look bad". He typically is motivated to make a ratee "look good" but not too good. He reasons that other raters who are rating other people have similar motives and he wants his ratees to generally compare favourably with those of other raters but he is not sure how the other will rate so he does not know how to rate his own ratees. What would be desirable would be a form which would allow an accurate and honest description of behaviour that would not require or allow the rater to directly make good-bad decisions. The forced choiced rating form meets this need.

Date of Commencement - Within the next year.

Expected Date of Completion - Not known.

Source of Finance - W.A.E.C. and USAID.

Method and Anticipated Date of Publication - TEDRO Reports.

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19. Name of Institution - The East African Examinations Council, Lagos, Nigeria.
- Title of Project - GAMBIA COMMON ENTRANCE EXAMINATION.
- Name of Person and Designation - Dr. D.J. Fitch - Technical Adviser
- Main Aim of Project - To provide information on the extent to which the tests developed in Nigeria are appropriate for use in The Gambia.
- Description - The same CEE test has been used in the Gambia and Nigeria. Headmasters in the Gambia have asked us if we can provide them with any information on the extent to which these tests developed in Nigeria are appropriate for use in the Gambia. We plan to undertake reliability studies using 1969 data from the two countries separately. A validity study is also being conducted in the two countries.
- Date of Commencement - August, 1969.
- Expected Date of Completion - December, 1969.
- Source of Finance - W.A.E.C. and USAID.
- Method and Anticipated Date of Publication - TEDRO Report - December, 1969.

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20. Name of Institution - The West African Examinations Council, Lagos, Nigeria.
- Title of Project - LIFE HISTORY QUESTIONNAIRE FOR THE SELECTION OF NURSES.
- Name of Persons and Designation - Dr. D.J. Fitch - Technical Adviser, C.O. Agbenyega - Principal Research Officer.
- Main Aim of Project - Selection of nurses in Ghana and Nigeria.
- Description - Life history questionnaires have been found useful in a variety of selection situations, and it seems reasonable to investigate its possibilities for use in nurse selection. The questionnaires will be developed for measuring some of the personality and motivational traits related to success in nursing. The tests used at present measure only aptitudes, but it is reasonably believed that there are traits other than what are measured by ordinary aptitude tests that are important for success in nursing, hence the idea. There will be two studies - concurrent and predictive. Concurrent study tests would be for nurses on the job, while the predictive study would be long range.
- Date of Commencement - March, 1969.
- Expected Date of Completion - First phase January, 1970.
- Source of Finance - W.A.E.C. and USAID.
- Method and Anticipated Date of Publication - TEDRO Reports. First report January, 1970.
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21. Name of Institution - The West African Examinations Council, Lagos, Nigeria.
- Title of Project - STUDIES OF THREE EXPERIMENTAL DEXTERITY TESTS DESIGNED TO BE MACHINE SCORED.
- Name of Persons and Designation - Dr. J.G. Snider - Acting Director, Dr. A.I. Fiks - Technical Adviser.
- Main Aim of Project - A method to permit quick scoring of group administered paper and pencil dexterity tests.
- Description - Of the 21 ID tests all but three - Manual Dexterity, Finger Dexterity and Marking are designed to be scored on the IBM1230. These tests must be scored by hand. Such hand scoring is very time consuming. The tests cannot therefore be used in large testing programs, even though it might be desirable to have the information provided by these tests. Experimental machine scorable forms of these three tests were designed. They were, along with two other machine scorable dexterity tests administered to 58

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applicants for jobs as packers. Reliabilities and inter-correlations were computed. The new tests had an average reliability of .83 as compared with an average of .91 for the three ID tests. However the average correlation matching experimental test and ID tests was found to be only .14. This means that whatever the new tests measure - and they seem to measure it with fairly good reliability - it is only slightly related to what the ID tests measure. These results strongly suggest that validity studies are needed. Also as reliability would depend on the condition of the 1230 and of the type of pencil used by the examinee, further research studies will be undertaken to investigate these factors.

Date of Commencement - April, 1968.  
Expected Date of Completion - April, 1970.  
Source of Finance - W.A.E.C. (TEDRO); USAID.  
Method and Anticipated Date of Publication - Published as tests. Late 1970.

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22. Name of Institution - The West African Examinations Council, Lagos, Nigeria.
- Title of Project - TESTS FOR THE SELECTION OF AGRICULTURAL WORKERS.
- Name of Persons and Designation - Dr. D.J. Fitch - Technical Adviser, T.O. Oyerinde - Research Fellow.
- Main Aim of Project - To conduct research on the selection of agricultural extension workers.
- Description - The problem is interesting in that it is suspected that motivational-interest variable are more important than aptitudes. There is even some evidence which would suggest finding within present extension workers, a negative correlation between general aptitude, as would be measured by ID tests, and rated on-the-job success. R.K. Harrison in his study - Work and Motivation: A study of Village-level Agricultural Extension Workers in the Western State of Nigeria found that the better workers were older and less well educated. A battery of ID tests will be tried along with a specially developed life history questionnaire and perhaps interest and values scales in a study similar to the nurses study.
- Date of Commencement - Within the next year.
- Expected Date of Completion - Not known.
- Source of Finance - W.A.E.C. and USAID.

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Method and Anticipated Date of Publication	- TEDRO Reports.
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23. Name of Institution	- The West African Examinations Council, Lagos, Nigeria.
Title of Project	- VALIDATION OF ACHIEVEMENT TESTS.
Name of Person and Designation	- <u>Dr. D.J. Fitch</u> - Technical Adviser.
Main Aim of Project	- Validation studies to increase the accuracy and efficiency by which achievement can be measured.
Description	- A review of the Godschalk, Swineford and Coffman study undertaken at ETS and published in 1966 will be carried out with subject matter panels. From this will be developed a highly reliable and valid a achievement criterion for their subject and a large experimental battery of short traditional and objective papers. The cri- terion measure would be given to a sample of a few hundred students along with the experimental battery. Papers of the battery would be validated against the criterion and a subset of papers predicting the criterion would be selected. The possibilities of increasing the accuracy and efficiency by which achievement can be measured are very large by means of such research.
Date of Commencement	- Hopefully in the near future.
Expected Date of Completion	- Not known.
Source of Finance	- W.A.E.C. and UNSAID.
Method and Anticipated Date of Publication	- TEDRO Reports.
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24. Name of Institution	- The West African Examinations Council, Lagos, Nigeria.
Title of Project	- STANDARD AND SIDE BY SIDE ANSWER SHEETS.
Name of Person and Designation	- <u>Dr. D.J. Fitch</u> - Technical Adviser.
Main Aim of Project	- Designing of standard answer sheets that could be used with most or all of our tests.
Description	- On large testing programs it is highly desir- able to have answer sheets computer printed with the candidate's name and his index number grid printed in a machine readable form. When such answer sheets are returned for scoring the candidate's number along with his scores are punched into a card. If the candidate himself had marked the index

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number grid there would be a chance that a mistake would be made. This could mean losing the candidate's scores or, worse still, assigning one candidate's scores to another candidate. A difficulty with such computer printing is that it is quite time consuming. One can expect to print less than 1,000 per hour. Such printing can be done at twice the speed if answer sheets are reprinted side by side.

Date of Commencement	- February, 1968.
Expected Date of Completion	- Studies expected to continue indefinitely.
Source of Finance	- W.A.E.C. and USAID.
Method and Anticipated Date of Publication	- No reports planned.
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25. Name of Institution	- Institute of Education, University of Ibadan, Nigeria.
Title of Project	- PREPARATION AND STANDARDIZATION OF READING TESTS FOR NIGERIAN SCHOOL CHILDREN.
Name of Person and Designation	- <u>Dr. John O.O. Abiri</u> - Lecturer of Education.
Main Aim of Project	- To prepare a set of standardized Reading Tests (initially in English, but possibly in at least one of the major Nigerian languages later) which may be used for grading, selection selection, and comparative assessment of pupils' achievements in reading.
Description	- Writing, trial runs, and standardization of test materials.
Date of Commencement	- As soon as fund are available.
Expected Date of Completion	- About two years from date of commencement.
Source of Finance	- None yet.
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26. Name of Institution	- Department and Institute of Education, University of Ibadan.
Title of Project	- ADAPTING OBJECTIVE TESTS FOR LOCAL USE.
Name of Person and Designation	- <u>Dr. E.A. Yolo</u> ye - Lecturer in Education.
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27. Name of Institution	- Department and Institute of Education, University of Ibadan.
Title of Project	- EVALUATION OF THE AFRICAN PRIMARY SCHOOL SCIENCE PROGRAMME.
Name of Person and Designation	- <u>Dr. E.A. Yolo</u> ye - Lecturer in Education

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28. Name of Institution - University of the West Indies Institute of Education, Jamaica, W.I.
- Title of Project - ARITHMETIC TEST REPORT.
- Name of Person and Designation - Helen M. Vinansky - Institute of Education.
- Description - As a part of the Mathematics Project by the Ministry of Education, Jamaica, and the University of the West Indies Institute of Education, an initial testing programme was carried out in a specific number of schools during October 1967.
- Testing Instrument was constructed based on the Arithmetic Computation part of the Stanford Achievement Test, Intermediate Battery Complete, Form K, 1953. It was originally designed to test students at one junior secondary school to determine who were in need of the remedial work.
- It consists of 45 examples ranging from the simple to the more difficult in the area of addition, subtraction, multiplication, division, fractions, decimals and money.
- There are also four miscellaneous items on time, capacity, percentage and average. The test was not standardized for Jamaican students as a whole and therefore poses certain limitation.
- Schools Tested 641 seventh grade students in different parts of the island as well as First Year students in one Teachers' College.
- Date of Commencement - 1967.
- Expected Date of Completion - 1973 and possibly later.
- Source of Finance - Jamaica Government; U.S. Peace/Corps Volunteers; U.W.I. Institute of Education provides one of the project Directors.
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29. Name of Institution - University of the West Indies Institute of Education, Jamaica, W.I.
- Title of Project - EVALUATION OF AN ORIENTATION WORKSHOP: A PHASE OF CURRICULUM DEVELOPMENT IN MATHEMATICS.
- Name of Person and Designation - Desmond Broomes - Research Fellow
- Main Aim of Project - Study attempts to show how evaluation of a workshop fits into mathematics curriculum building in St. Lucia.
- Two considerations motivated the planning and execution of the orientation workshop  
1) what is mathematics

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- 2) what constitute curriculum changes in mathematics.

The workshop was to enable participants:

- (a) to become acquainted with the philosophy of the mathematics programme
- (b) to understand the scope and aims of the St. Lucia Mathematics Project
- (c) to study and use the teacher's manual and the pupil's workbook
- (d) to plan and construct teaching devices (charts, aids etc.) for use in the Grade 1 programme
- (e) to study the functions of aids and other concrete materials in the Grade 1 programme and to acquire skills in using them properly.
- (f) to acquire and/or reinforce basic mathematical ideas relevant to the Grade 1 programme.

The main hypothesis was that those who underwent the experiences of the workshop would be better able to use the new curriculum materials.

### Description

- The design used was a time-series design where measures of certain characteristics of a population were taken at certain intervals and one of these intervals included the experimental treatment. A  $t$  statistic was used to test the hypothesis of change before and  $t_2$  after the experimental treatment. And a  $X^2$  was used to test significance of information collected by questionnaires at the end of each day of the workshop. Data for this study was collected by administering four specially prepared tests on mathematics understanding; on physical, mental and emotional growth of 5-6 year olds; on teaching and learning mathematics to 5-6 year olds; on attitude to mathematics - to 84 teachers attending the workshop.

Date of Commencement - 1966.

Expected Date of Completion - On-going project. No date set.

Source of Finance - St. Lucia Government with Project. Co-ordinator provided by the U.W.I. Institute of Education.