

## C - METHODS OF ENQUIRY

### Research methods; testing and evaluation

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#### 1. Title of Project

PERFORMANCE LEARNING TEST FOR THE COOK ISLANDS

#### Institution

New Zealand Council for Educational Research, Wellington, New Zealand.

#### Name of Person and Designation

Dr. J. Perry, Lecturer in Psychology, University of Canterbury, Christchurch, New Zealand.

#### Main Aim of Project

To develop test materials related to the indigenous culture.

#### Description

Construction of a test using indigenous materials for Cook Island children in the age range of 6-9 years. Based on extensive field work in the Cook Islands and with Polynesian, Maori and Pakeha children in New Zealand. Will incorporate range of observations on the perceptual and other intellectual characteristics of Cook Islands children.

Date of Commencement - 1972

Expected Date of Completion - 1974

#### Source of Finance

New Zealand Council for Educational Research

Method of Publication - Test materials

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#### 2. Title of Project

ATTITUDE SCALE DEVELOPMENT, AND THEIR UTILISATION

#### Institution

Educational Research Unit, University of Papua New Guinea.

#### Names of Persons and Designations

Dr. J. Jones, Lecturer, Educational Research Unit

J. Shea, Senior Tutor, Department of Psychology

#### Main Aim of Project

To determine valid attitude scales appropriate to the Papua New Guinea situation, and to use these in investigations and

evaluations of various programmes.

#### Description

A conservatism scale, suitable for use with educated Papuans and New Guineans has been developed and validated with a wide cross-section of the appropriate population. Some interesting relations between conservatism and educational level, school background, church attendance, divergent thinking nationality, have been observed. Studies are continuing, aimed at evaluating educational programmes and the development of non-verbal scale.

Date of Commencement - June, 1972

Expected Date of Completion - December, 1974

#### Source of Finance

University of Papua New Guinea

#### Methods of Publication

E.R.U. Report; journal articles

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#### 3. Title of Project

AN INVESTIGATION INTO SOCIAL ATTITUDES HELD BY PAPUA NEW GUINEAN HIGH SCHOOL STUDENTS AND THEIR RELATIONSHIP TO RELIGIOUS BELIEF

#### Institution

University of Papua New Guinea

#### Name of Person and Designation

Mrs. S.K. Randell, Supervisor, Teaching Methods and Materials Centre

#### Main Aim of Project

To develop a set of instruments to measure social attitudes which can be used to evaluate the effectiveness of a religious studies programme.

#### Description

Six questionnaires have been prepared to measure various social attitudes and beliefs: conservatism, religious thought, traditional beliefs and social distance. The questionnaires have been trialled with a sample of eighty Form 3 secondary students, and after modification will be administered to a larger sample of students throughout Papua New Guinea. The tests will be used to evaluate the effect of the Religious Studies Elective being introduced into

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Papua New Guinea secondary schools. The relationship between attitude tests and religious belief will be investigated.

Date of Commencement - December, 1972

Expected Date of Completion - December, 1974

Source of Finance

Department of Education, Konedobu, Papua New Guinea.

Method and Expected Date of Publication

Report to Research Branch, Department of Education, Konedobu, Papua New Guinea, December, 1974.

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Title of Project

COGNITIVE ABILITIES OF SECONDARY AND TERTIARY STUDENTS

Institution

Educational Research Unit, University of Papua New Guinea.

See E 3

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Title of Project

PROGRAMME ON PLANNING CLASSROOM TESTS

Institution

University of Papua New Guinea.

See F 5

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Title of Project

PILOT PROJECT OF TEACHER ASSESSMENT OF PRACTICAL SKILLS IN CHEMISTRY AT ADVANCED LEVEL

Institution

Department of Education, University of Hong Kong.

See L 2

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Title of Project

WASTAGE IN INDIAN SCHOOL EDUCATION - A REVIEW OF METHODOLOGY

Institution

Institute of Applied Manpower Research, New Delhi, India.

See J 3

4. Title of Project

EDUCATIONAL EVALUATION CENTRE

Institution

Institute of Education, University of Ibadan, Nigeria.

Name of Person and Designation

Dr. E.A. Yoloye, Reader in Education

Main Aims of Project

To establish a Centre for Educational Evaluation for the following purposes: (i) training of evaluators, (ii) research into evaluation techniques and instruments, (iii) contractual evaluation assignments.

Description

The Centre is being established on an experimental basis for one year starting September 1972 under the sponsorship of the Science Education Programme for Africa (SEPA). A group of twenty trainees from countries all over Africa will undergo a three month course at the University of Ibadan from September 1972 - December 1972. Research on evaluation techniques to which the trainees will contribute will continue throughout the year by which time a proposal for the more permanent Centre will have been made to the funding agencies.

Date of Commencement - September, 1972

Date of Completion - Indefinite

Source of Finance

Carnegie Corporation of New York

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5. Title of Project

PREDICTORS OF SCIENCE - ACHIEVEMENT IN IBADAN UNIVERSITY 1965-1970

Institution

Department and Institute of Education, Ibadan University, Nigeria.

Name of Person and Designation

The late Dr. E. 'Lanre Ogunyeki, Lecturer

Main Aims of Project

To identify (i) the extent to which each of the entry requirements - School Certificate/ GCE 'O' level, HSC, and GCE 'A' level predict achievement of students in the Faculty of Science at the University of Ibadan (ii) the extent to which Parts I and II performances predict the final examination performance of these students, and (iii) to suggest possible improvements in the university entrance selection mechanism

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based on the result of the data analysis.

### Description

Multiple correlation and regression analysis - stepwise and canonical - were used to analyse (by computer) collated data of all science students who graduated from the University of Ibadan between 1965 and 1970 inclusive. The predictiveness of the various predictor variables are then compared and suggestions for improving the university entrance selection mechanism are made.

Date of Commencement - June, 1971

Date of Completion - July, 1972

### Source of Finance

Department and Institute of Education, Ibadan University, Nigeria.

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### Title of Project

SCHOLASTIC APTITUDE TESTS FOR GUIDANCE AND SELECTION

### Institution

Department of Education, University of Ibadan, Nigeria.

See G 9

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### Title of Project

THE SERIAL POSITION OF PRACTICE EXERCISES IN SCIENCE LEARNING: AN INVESTIGATION OF THE PROCESSES OF ACQUISITION AND TRANSFER OF LEARNING IN AN AREA OF SCIENCE- USING SELF-INSTRUCTIONAL TECHNIQUE

### Institution

Department of Education, University of Ibadan, Nigeria.

See F 12

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### 6. Title of Project

THE FEASIBILITY OF CONSTRUCTING AND VALIDATING A DEXTERITY TEST SUITABLE FOR LARGE SCALE ADMINISTRATION

### Institution

School of Education, University of Reading, Berkshire, United Kingdom.

### Name of Person and Designation

F.G. Lockwood, Postgraduate Research Student

### Main Aim of Project

To investigate the feasibility of constructing and validating a dexterity test suitable for large scale administration. In particular the study aims to evaluate the potential of paper and pencil techniques to identify and measure fine manipulative ability.

### Description

Nine experimental forms of a dexterity test were constructed and administered to a sample of 300 school boys, consisting of First, Second, Third, Fourth and Fifth Year boys, drawn from an urban secondary school. The experimental instruments were shown to have a high test/retest reliability, in the region of .80 - .90, but relatively low validity against a suspect criterion score. Initial results suggest that the instrument is a measure of some dexterious aptitude rather than a skill susceptible to training. Test performance is independent of intellectual ability.

Further research is in progress.

Date of Commencement - October, 1972

Expected Date of Completion - July, 1975

### Source of Finance

Department of Education and Science - 1972/1973

Schools Science Research Council - 1973/1974

### Method of Publication

Thesis and appropriate journal

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### 7. Title of Project

THE DEVELOPMENT OF LEARNING ABILITY TESTS

### Institution

National Foundation for Educational Research in England and Wales, Slough, United Kingdom.

### Name of Person

Dr. R. Sumner

### Main Aim of Project

To produce and validate learning ability tests suitable for classroom administration.

### Description

Tests of learning ability were devised and validated by Dr. Judith Haynes during the period of 1967-1970 using a sample of Sikh children. These tests proved to be better

predictors of subsequent school achievement than either traditional IQ tests or teachers' estimates of pupils' ability.

In order that the tests may be used more effectively to predict the learning potential of children whose linguistic or cultural background precludes the reliable use of more traditional forms of assessment, the original study is to be extended.

To do this, the responses of children from other ethnic groups are to be investigated and the materials produced in a form readily administered by teachers.

The purpose of the present project is to repeat the original study with a group of West Indian and Pakistani children of junior school age and in addition to revise the tests so that class teachers can administer them in a normal school situation.

The project is to last for three years and two psychologists will be employed to administer the tests and to adapt the materials with a view to classroom administration.

Date of Commencement - September, 1973

Expected Date of Completion - August, 1976

Source of Finance

Department of Education and Science

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Title of Project

A STUDY OF THE EFFECTIVENESS OF  
THE PECE CURRICULUM (MATTER,  
METHOD AND MATERIALS)

Institution

School of Education, University of the  
West Indies, Kingston, Jamaica

See E 17

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