

H - CURRICULUM

General, primary, secondary; particular subjects of disciplines.

1. Name of Institution	- School of Education, University of Waikato, New Zealand.
Title of Project	- HIGH SCHOOL SOCIAL SCIENCE CURRICULUM PROJECT, TERRITORY OF PAPUA AND NEW GUINEA
Names of Persons and Designations	- <u>James E. Ritchie</u> - Professor, University of Waikato; <u>Ian Whelan</u> - Development Officer, Department of Education, Territory of Papua and New Guinea.
Description	- This project comprises the development of a social science curriculum based on indigenous experience and classroom-community laboratory and field methods. The programme will consist of a four year curriculum co-ordinated in two sets of two and related to other curricula at present operating or being developed. The responsibility rests with the Department of Education who have called in a wide range of contributing experts. Development of materials is being undertaken in association with the Materials Centre of the University of Papua and New Guinea, which is also assisting in the evaluation. All the development and teaching has been designed to be open for continuous review. Training of secondary teachers is under way at the Goroka Secondary Teachers' College. The curriculum for each year is tested in experimental schools before general adoption. To date, year 1 has been fully serviced and is operating, year 2 is under experimental evaluation and year 3 is in the process of being planned.
Dates of Commencement	- Original reports by consultants, 1968. Planning, 1969. Year 1: evaluation, 1970. Adoption, 1971. Year 2: " , 1971. " , 1972.
Expected Date of Completion	- By 1974, the full four year programme will be universal in state and mission schools throughout the territory.
Source of Finance	- Internal. Department of Education, Territory of Papua and New Guinea.

H - Curriculum

Method and Anticipated Date of Publication	- Occasional. For information on materials contact Mr. Whelan, Department of Education, Konedobu. A social science newsletter for teachers in the territory is produced.
2. Name of Institution	- Centre for Advancement of Teaching, Macquarie University, Australia.
Title of Project	- DEVELOPMENT OF TECHNIQUES FOR THE EVALUATION OF NEW SCIENCE CURRICULA IN DEVELOPING COUNTRIES
Name of Person and Designation	- <u>Dr. G.R. Meyer</u> - Director, Centre for Advancement of Teaching.
Main Aim of Project	- To develop simple and effective methods of assessing the relevance and effectiveness of new science curricula in countries with limited resources for educational research and development.
Description	- Field studies have been undertaken in countries such as Kenya, Malawi, Mauritius, Tanzania, Uganda and Zambia. By working through local curricula, panels techniques for evaluating cognitive, affective and psychomotor outcomes of new curricula have been developed. These techniques include devices for systematic observation of classroom practice, for assessment of cognitive achievements, attitudes and interests, and for assessing school resource programmes. A number of indices of effectiveness have been developed to give an overall assessment of the suitability of the new programmes.
Date of Commencement	- June, 1968.
Expected Date of Completion	- Indefinite, but certain aspects will be publishable by the end of 1972.
Sources of Finance	- (i) Establishment of funds of Macquarie University Centre for Advancement of Teaching. (ii) Salary for consultancy provided by UNESCO.
Method and Anticipated Date of Publication	- From time to time, aspects of this study are included in reports submitted to UNESCO. In addition, a number of papers in educational journals are being prepared for publication through 1972/73.

H - Curriculum

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| 3. | Name of Institution | - Department of Education, University of Hong Kong. |
| | Title of Project | - STUDIES IN THE INTRODUCTION AND INTEGRATION OF NUFFIELD CHEMISTRY INTO THE SCHOOL CERTIFICATE SYLLABUS |
| | Name of Person | - <u>A. Tam.</u> |
| | Description | - Of all the "products" imported from the United Kingdom, this is one which should not be used without any modification and adaption to meet the local conditions. Since work has been done to introduce Nuffield Combined Science to some local secondary schools, it is about time to give some thought to bring the three separated Nuffield "O" level science subjects into the schools. The research will aim at three main aspects which will help to clear the way for adapting the scheme, viz.:
(a) the reaction of the teachers to the scheme;
(b) the reaction of the students to the scheme;
(c) the problem of availability of laboratory space, equipment and chemicals in most local secondary schools. |
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| 4. | Name of Institution | - Faculty of Education, University of Nairobi, Nairobi, Kenya. |
| | Title of Project | - THE CURRICULUM DEVELOPMENT PLAN AND ITS IMPLICATIONS FOR THE TEACHING OF GEOGRAPHY |
| | Name of Person | - <u>Elijah Sinia Andahwa.</u> |
| | Main Aim of Project | - To examine the African Socialism Sessional Paper No. 10 and its application to planning in Kenya and the Current Development Plan, and then to find out how the teaching of Geography in Kenya is promoting the ideas contained in these documents. |
| | Description | - This will be carried out by means of interviews, and by means of questionnaires sent to some of the institutions of learning. |
| | Date of Commencement | - January, 1971. |
| | Expected Date of Completion | - July, 1972. |
| | Source of Finance | - Exploring the possibilities of financial assistance from the University. |
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H - Curriculum

Name of Institution	- University of Papua and New Guinea.
Title of Project	- EXTENSIVE READING LIST FOR HIGH SCHOOLS See I 1
Name of Institution	- University of Papua and New Guinea.
Title of Project	- THE DEVELOPMENT OF PRE-SCHOOL TEACHING AND LEARNING MATERIALS See F 3
Name of Institution	- University of Papua and New Guinea.
Title of Project	- INTONATION AND STRESS PATTERNS OF ENGLISH AS A COMMUNICATION PROBLEM FOR STUDENTS USING ENGLISH AS A SECOND LANGUAGE MEDIUM OF INSTRUCTION See F 4
Name of Institution	- University of Papua and New Guinea.
Title of Project	- DESIGN, CREATION AND TESTING OF EDUCATIONAL MATERIALS FOR A NON-GRADED, MULTI-RACIAL PRIMARY SCHOOL See. F 5
Name of Institution	- University of Papua and New Guinea.
Title of Project	- SURVEY OF SCHOOL BROADCASTS See F 8
Name of Institution	- University of Papua and New Guinea.
Title of Project	- SECONDARY SOCIAL SCIENCES PROJECT See. F 10
Name of Institution	- University of Papua and New Guinea.
Title of Project	- DESCRIBING MATERIALS USED IN TEACHING AND LEARNING See. F 11
Name of Institution	- University of Papua and New Guinea.
Title of Project	- EVALUATION OF THE T.P.P.S. PRIMARY SCIENCE PROGRAMME See F 12

H - Curriculum

5. Name of Institution	- Faculty of Education, University of Nairobi, Nairobi, Kenya.
Title of Project	- THE PROBLEMS OF MODERNIZING BIOLOGY TEACHING IN KENYA
Name of Person	- <u>Andrew Gomes</u> .
Main Aim of Project	- To: (i) investigate the present system of biology education; (ii) find out the approximate number of schools which would eventually adopt the S.S.P. course; (iii) explore the possibility of adopting the 'discovery approach' in teaching the traditional syllabus. (It is most likely that quite a number of schools, particularly the Harambee ones, will not adopt the S.S.P. course).
Date of Commencement	- January, 1971.
Expected Date of Completion	- Approximately 1973.
Source of Finance	- Personal.
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Name of Institution	- Department of Education, Makerere University, Kampala, Uganda.
Title of Project	- EDUCATION FOR RURAL DEVELOPMENT See R 8
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6. Name of Institution	- Department of Education, Makerere University, Kampala, Uganda.
Title of Project	- CURRICULUM DEVELOPMENT IN MATHEMATICS
Name of Person and Designation	- <u>Mrs. M. Harbottle</u> - Senior Lecturer.
Main Aim of Project	- To develop and evaluate a new curriculum in mathematics.
Description	- Production of written materials: Assessment of current syllabus; analysis of feedback from trial schools; Investigation of methods for teaching these.
Date of Commencement	- 1969.
Expected Date of Completion.	- 1973.
Source of Finance	- Uganda.
Method and Anticipated Date of Publication	- Workbooks and manuals.
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H - Curriculum

7. Name of Institution	- Department of Education, Makerere University, Kampala, Uganda.
Title of Project	- CURRICULUM DEVELOPMENT IN BIOLOGY
Name of Person and Designation	- <u>T.J.A. Macpherson</u> - Senior Lecturer in Education.
Main Aim of Project	- To assess the suitability of a new curriculum in biology for Ugandan schools.
Description	<ol style="list-style-type: none">1. Assessing the value of the course, as far as pupils in Uganda are concerned.2. Assessment of the material in the light of teachers' and pupils' comments.3. Modification of the course in the light of 1 and 2 above, in particular. Modification of the practical work to make it more suitable, easier to understand and carry out, and less costly.4. Production of support materials, e.g. visual aids, background readers.5. Production of new materials so as to extend the course to 'A' level.6. Assessment of the examination results and development of new methods of examining.
Date of Commencement	- January, 1971.
Expected Date of Completion	- December, 1975.
Source of Finance	- Probably Uganda National Research Council.
Method and Anticipated Date of Publication	- As a book in 1976.
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8. Name of Institution	- Department of Education, Makerere University, Kampala, Uganda.
Title of Project	- CURRICULUM DEVELOPMENT IN PHYSICS (S.S.P.)
Name of Person and Designation	- <u>A.L. Gunn</u> - Lecturer.
Main Aim of Project	- To develop the S.S.P. curriculum in physics.
Description	<p>- Production of written material and apparatus for 24 trial schools.</p> <p>Assessment of cost of introducing S.S.P. physics courses into Ugandan schools.</p> <p>Analysis of feedback from trial schools in order to assess the course, and revise it if necessary.</p>

H - Curriculum

	Production of examinations to assess the course .
	Production of support material (e.g. filmed/taped lessons) and evaluation of these .
	Production of 'background' books containing Ugandan examples to illustrate the physics course.
	Investigation of methods of training teachers to teach modern science courses. (In particular stressing the experimental approach).
Date of Commencement	- 1969.
Expected Date of Completion	- 1973.
Source of Finance	- Uganda Ministry of Education and CREDO.
Method and Anticipated Date of Publication	- Work books, manuals and papers. About 1974.
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9. Name of Institution	- Department of Education, Makerere University, Kampala, Uganda.
Title of Project	- AGRICULTURAL EDUCATION. (Starting 1971)
Name of Person and Designation	- <u>A.D.R. Ker</u> - Lecturer in Education.
Main Aim of Project	- To survey and evaluate the current programme in agricultural education in Ugandan secondary schools.
Description	- A survey and evaluation of the present curriculum in agriculture in schools and colleges; A description of current activities in curriculum development in agriculture in Ugandan secondary schools, and an attempt to assess their effectiveness, and their suitability to the needs of the pupils and of the country; General conclusions and proposals for future development.
Date of Commencement	- January, 1971.
Expected Date of Completion	- December, 1972.
Source of Finance	- Being sought.
Method and Anticipated Date of Publication	- As a thesis for a higher degree, and as a teacher's book, in 1973.
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H - Curriculum

10. Name of Institution - Department of Education, Makerere University, Kampala, Uganda.
- Title of Project - A GUIDE TO FIELD WORK FOR GEOGRAPHY TEACHERS IN UGANDA
- Name of Person and Designation - J.P. Ocitti - Lecturer.
- Main Aim of Project - To prepare a teacher's manual.
- Description - Preparation of the manual.
- Date of Commencement - January, 1970.
- Expected Date of Completion - December, 1972.
- Source of Finance - Makerere.
- Method and Anticipated Date of Publication - As a teacher's manual, 1973.
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11. Name of Institution - Department of Education, Makerere University, Kampala, Uganda.
- Title of Project - THE URBAN GEOGRAPHY OF GULU TOWNSHIP AND THE URBAN GEOGRAPHY OF KAMPALA CITY
- Name of Person and Designation - J.P. Ocitti - Lecturer.
- Main Aim of Project - To prepare a teachers' manual, and a workbook for school.
- Date of Commencement - January, 1970.
- Expected Date of Completion - December, 1972.
- Source of Finance - Makerere.
- Method and Anticipated Date of Publication - As a thesis and books in 1974.
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12. Name of Institution - Department of Education, Makerere University, Kampala, Uganda.
- Title of Project - MODERN PRIMARY EDUCATION
- Name of Person and Designation - J.P. Ocitti - Lecturer.
- Main Aim of Project - To prepare three books on the foundation, curriculum and methods of primary education.
- Date of Commencement - October, 1969.
- Expected Date of Completion - December, 1973.
- Source of Finance - Makerere.

H - Curriculum

Method and Anticipated Date of Publication	- As books in 1972.
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13. Name of Institution	- Department of Education, Makerere University, Kampala, Uganda.
Title of Project	- THE DEVELOPMENT OF ART EDUCATION IN UGANDA
Name of Person and Designation	- <u>T.M. Mazinga</u> - Lecturer.
Main Aim of Project	- To investigate the development of art in the various stages of education in Uganda.
Description	- Consideration of the background to art education in Uganda; Historical development of the School of Arts; Situation of art education in Ugandan schools and teacher training colleges; The role of other agencies in art education; Recommendation for the future of art education, after investigation by interviews and questionnaires.
Date of Commencement	- July, 1970.
Expected Date of Completion	- July, 1973.
Source of Finance	- Makerere research grant.
Method and Anticipated Date of Publication	- As a higher degree thesis in 1973, and as a book in 1974.
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Name of Institution	- Department of Education, Makerere University, Kampala, Uganda.
Title of Project	- CHEMISTRY METHODOLOGY FOR UGANDAN SCHOOLS See F 27
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14. Name of Institution	- Science Education Centre, School of Education, University of Zambia.
Title of Project	- PRIMARY SCIENCE CURRICULUM STUDY
Name of Person and Designation	- <u>N.E. Obioha</u> - Lecturer in Science Education.
Main Aim of Project	- To ascertain the levels of development of certain science "readiness" factors by pupils in Zambian primary schools, and to investigate the effects of deliberate stimulation of the children in the selected "readiness" areas.

H - Curriculum

Description	<p>- This project, considered a preliminary research upon which the development of a meaningful science curriculum for the primary school could be based, is conceived in the belief that the Zambian Child, whose environment may be limited in experiential values, may not have acquired the readiness skills and concepts at the ages assumed by those responsible for planning curricula. If it is so, it is very likely that the learning of concepts in science are severely handicapped. The research is, in fact, an attempt to empirically verify this belief.</p> <p>The study is planned three parts:</p> <ul style="list-style-type: none">(i) the development and use of an instrument (group test) to determine the level of development of some basic concepts and skills (readiness factors) deemed to be pre-requisites to effective learning of science;(ii) the stimulation, through standardised practical lessons, of those readiness factors, and(iii) the evaluation of the effect of the stimulations, with particular reference to intellectual growth and readiness for, and/or performance in, science.
Date of Commencement	- October, 1970.
Expected Date of Completion	- December, 1972.
Source of Finance	- Senate Research Fund of the University of Zambia.
Method of Publication	- Mainly as occasional publications in appropriate journals.
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15. Name of Institution	- University of Lagos College of Education, Lagos, Nigeria.
Title of Project	- PARTICIPATION OF LOCAL SYSTEMS IN A PAN AFRICAN EXPERIMENT IN EDUCATION
Name of Person and Designation	- <u>Akindele Osiyale</u> - Lecturer in Education.
Main Aim of Project	- To identify the change potentials and preferences of a local education system and induce change in the area of the primary school science curriculum.

H - Curriculum

Description	- The project introduces key personnel, within the Lagos State area, to the Africa Primary Science Programme, through classroom demonstrations, workshops and training. A number of teaching units, either adapted from A.P.S.P. or locally developed by co-operative effort, were introduced into a few primary schools. Co-operation with the education establishments resulted in concerted in-service training courses for teachers. A growing cadre of local resource people within the community develops interest and participates in material development and teacher training. The local education system accepts the philosophy and entrusts the preparation of science teaching guides to the cadre of local personnel.
Date of Commencement	- November, 1967.
Expected Date of Completion	- June, 1971.
Sources of Finance	- 1) Education Development Centre, under a contract grant from USAID; 2) Lagos State Ministry of Education; 3) Lagos City Council, Education Department.
Anticipated Date of Publication	- Soon after completion.
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16. Name of Institution	- Comparative Education Study and Adaptation Centre (CESAC), University of Lagos, Nigeria.
Title of Project	- THE DEVELOPMENT OF CURRICULA AND INSTRUCTIONAL MATERIALS FOR USE IN THE SECONDARY SCHOOLS OF NIGERIA
Names of Persons and Designations	- <u>Chief B. Somade</u> - Director; <u>Mr. O. Ozoro</u> - Research Fellow (on study leave); <u>Dr. A.L. Nickelson</u> - Research Fellow; <u>Prof. John Withall</u> - Research Fellow.
Main Aim of Project	- To develop, try out and revise curricula, textbooks and instructional materials for use in the secondary institutions of Nigeria, particularly comprehensive high schools and teacher training colleges, in the content areas of: Basic Science, Forms I and II. Biology, Chemistry & Physics, Forms III, IV and V. Social Studies, Forms I and II. Voc. and Technical Education, Forms I, II and III.

H - Curriculum

Description	<p>Home Economics, Forms I-V. Agriculture, Forms I and II.</p> <p>- The Comparative Education Study and Adaptation Centre, with the co-operation of the Ministries of Education, University subject-matter and education specialists and secondary school teachers and administrators, has conducted a programme of curriculum development and related in-service teacher education for secondary schools since 1965.</p> <p>The scheme or model of operations in the development of materials, training of teachers to use the materials, the trial teaching and subsequent revision of books and materials invariably involves these steps:</p> <ol style="list-style-type: none">1. initial curriculum development conference;2. writing workshops for production of teachers' guides, pupils' texts or workbooks and other materials;3. criticizing of first drafts of materials written;4. preparation by teachers who will try out materials;5. trial teaching of materials by trained teachers in ministerially selected pilot schools, (1st. and 2nd. years);6. feedback conference on the utility of the materials, involving the teachers and headmasters who used them, Ministry of Education representatives, teacher-training personnel and university representatives;7. co-operation with professional organisations, (e.g. Science Teachers Association of Nigeria, Social Studies Association of Nigeria), and ministries to stimulate the adoption and use of the curricula and materials.
Date of Commencement	- Programme began in 1965 and the Centre was formally established in 1968.
Expected Dates of Completion	- First stage of operations expected to be completed in 1972. The work of revision, dissemination and in-service teacher education will be a continuing project.
Source of Finance	- Ford Foundation.

H - Curriculum

Method and Anticipated Date of Publication	- Materials have been, and are being, constantly developed and published by commercial firms commissioned for specific printing of teachers' guides and pupils' books. The publications are sold at cost. Reports on CESAC's work and activities appear in the form of Quarterly and Annual Reports and are reported in CESAC's Newsletter <u>DIGEST</u> .
17. Name of Institution	- Department of Education, Ahmadu Bello University, Zaria, Nigeria.
Title of Project	- ATTITUDES AND ACHIEVEMENTS IN A PROGRAMMED UNIT OF GEOGRAPHY
Name of Person and Designation	- <u>P.O. Okunrotifa</u> - Lecturer in Education, Curriculum Development.
Main Aim of Project	- 1. To investigate: (a) the attitudes of second formers towards geography presented through linearly programmed materials; (b) the attitudes of the second formers towards programmed instruction; (c) the achievements of the second formers in a programmed unit of geography. 2. To compare the attitudes and achievements of: (a) experimental and control groups in the study; (b) sexes in the study; (c) urban and rural environment groups in the study. 3. To investigate the relationship between attitudes towards programmed instruction and achievements in geography.
Description	- Development and validation of experimental instruments. Administration of experimental materials in: urban (boys /girls) and rural (boys /girls) Secondary grammar school students of the North Central State of Nigeria. Analysis of data.
Date of Commencement	- October, 1969.
Expected Date of Completion	- 1972.

H - Curriculum

Source of Finance	- Department of Education, Ahmadu Bello University, Zaria, Nigeria.
Method and Anticipated Date of Publication	- Articles, 1974.
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Name of Institution	- Institute of Education, University of Ibadan, Nigeria.
Title of Project	- ENVIRONMENTAL STUDIES PROJECT See R 12
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18. Name of Institution	- Institute of Education, University of Ife, Nigeria.
Title of Project	- THE SIX YEAR PRIMARY PROJECT
Names of Persons and Designations	- <u>Professor A.B. Fafunwa</u> - Director, Institute of Education - Director of the Project; <u>Mr. J.A.F. Sokoya</u> - Institute of Education; <u>Mrs. J.I. Macauley</u> - Primary English Specialist; <u>Dr. A. Afolayan</u> - Lecturer in English as a Second Language; A number of Consultants from Ibadan and Lagos Universities and Principals of Teacher Training Colleges and Primary Schools in Western Nigeria.
Main Aims of Project	- There are four main aims of the project, 1. To develop a primary education curriculum with an adequately strong surrender value, since primary education is terminal for the majority of Nigerian children. 2. To develop materials, together with appropriate methodology, for teaching the prepared curriculum effectively. 3. To use the Yoruba language as the medium of instruction throughout, in order to demonstrate that primary education, when given in the child's mother tongue rather than in a second or foreign language, is more effective and meaningful. 4. To teach the English language effectively as a second language through specialist teachers, and thereby provide an alternative approach (generally assumed to be more practicable and rewarding than the current education practice) to the equipment of primary school products with a knowledge of English adequate for secondary education or appointments usually given to people of that level of formal education.

H - Curriculum

Description

- Workshops are organised, as needs arise, to produce a new curriculum for primary education and to develop new teaching materials. The curriculum prepared covers five instructional areas: Yoruba, English, mathematics, elementary science, and social and cultural studies.

A three-arm primary school - St. Stephen 'A' Primary School at Modakeke, Ill-Ife, was chosen. Two of the primary class one arms were designated experimental classes, and the third, the control. In the experimental classes, all subjects of the new curriculum, except English, are taught in Yoruba; and the English language is taught as a school subject by a specialist teacher of English as a second language. But in the control class the new curriculum is taught under the existing language policy of using Yoruba in the first three years and English in the last three years as the medium of instruction. Thus, in effect, there are two kinds of control provided: in terms of language through the three arms of the school and in terms of both content and language through all other primary schools in the State.

For validation of the project as an experiment, it is planned to widen it at the next phase by extending it to schools in other locations in the State.

Since the current training given to primary school teachers does not include how to use only Yoruba as the medium of primary education, on-the-job training is being provided for teachers serving on the project. It is planned to establish a pilot teacher training programme in at least one teacher training college within the next phase of the project. This is because it is considered necessary to be able to provide information, on a scientific basis, concerning the type of teacher training required for the effective adoption of the language policy underlying the programme. The project thus involves an exercise in the development of the Yoruba language for carrying the function of a medium of instruction in new areas such as modern mathematics and elementary science.

Date of Commencement

- January, 1970 (the beginning of the 1970 school year).

H - Curriculum

Expected Date of Completion	- The project is expected to be completed at the end of six years, that is by December, 1975 (the end of the 1975 school year). By then, no further in-take would be made into class one. It is hoped, however, that the achievement of at least three sets of the products of the project will be required for the purpose of comparative assessment. If a further year is allowed for the writing up of the results of the project, the project is expected to be completed by December, 1980.
Sources of Finance	- Ford Foundation, the Western State Ministry of Education and the University of Ife.
Method and Anticipated Date of Publication	- The following types of publication are envisaged: <ol style="list-style-type: none">1. The syllabuses and the schemes of work of (a) the six-year primary education curriculum and (b) the three-year pilot teacher training programme.2. The teaching materials (pupils' or students' and teachers') for the primary education and teacher training programmes.3. A scientific report of the project as an educational - linguistic experiment. (This project can be seen as a scientific experiment on the claims of <u>The Use of Local Languages in Education</u>, Monographs on Fundamental Education No. 8, Paris, UNESCO, 1953). <p>It is hoped that all publications will be completed by 1981.</p>
19. Name of Institution	- Faculty of Education, University of Ife, Nigeria.
Title of Project	- THE NATURE AND STRUCTURE OF MORAL INSTRUCTION IN WESTERN STATE SECONDARY SCHOOLS
Name of Person and Designation	- <u>Dr. J. Ade. Akinpelu</u> - Lecturer.
Main Aim of Project	- To determine if moral instruction is given in secondary schools in the Western State and, if it is, to analyse its nature and structure.
Description	- This is purely an exploratory project to find out what passes for moral education in schools. I propose to use questionnaires and interviews in the survey. The research is likely to spotlight whether teachers believe

H - Curriculum

that specific moral instructions is possible or necessary, and how far religion, civics, history and literature, and any other subjects, are used as sources of instruction.

Date of Commencement	- April, 1971.
Expected Date of Completion	- June, 1972.
Source of Finance	- University of Ife Development Funds.
Method and Anticipated Date of Publication	- As a research monograph and as a journal article. 1972 or thereafter.

20. Name of Institution	- Department of Teacher Education, Njala University College, University of Sierra Leone.
Title of Project	- NEW DIRECTIONS IN CURRICULUM ADAPTATION IN MATHEMATICS FOR SIERRA LEONE
Name of Person and Designation	- <u>Dr. R. Ogbonna Ohuche</u> - Senior Lecturer.
Main Aim of Project	- To study fundamental mathematical ideas in the traditional cultures of Sierra Leone and to determine implications for the adaptation of modern mathematics programmes.
Description	- An interview schedule is used to obtain information on basic ideas of arithmetic, geometry and measurement embedded in the subcultures of four ethnic groups; Creoles, Limbas, Mendes and Temnes. An investigation is carried out into possible inter-actions between the ideas and the concepts of modern mathematics now being tried out.
Date of Commencement	- July, 1969.
Expected Date of Completion	- June, 1972.
Source of Finance	- Research Grants and Publications Committee of Njala University College.
Method and Anticipated Date of Publication	- Journal articles, monograph, probably end of 1972.

21. Name of Institution	- Institute of Education, University of the West Indies, Trinidad.
Title of Project	- A WEST INDIAN SCIENCE CURRICULUM INNOVATION PROJECT (WISCIP)

H - Curriculum

- Names of Persons and Designations
- Dr. E.A. Furlonge - Ag. Resident Representative;
 - H. Thompson, M.Sc., - Science Supervisor, Ministry of Education and Culture, Trinidad and Tobago; attached to the Institute of Education, U.W.I., St. Augustine, Trinidad;
 - Dr. Iolo Wyn Williams -)
 - Education Department,)
 - University College of)
 - Swansea, Swansea, U.K.;) Consultants.
 - Dr. Bryan Powell, Education)
 - Department, Trinity College,)
 - Dublin, Ireland.)
- Main Aims of Project
- (a) To produce teachers' guides for a science course for secondary school pupils aged 12-14 (Years 1-3 in existing secondary schools and in the projected junior secondary schools).
 - (b) To establish whether pupils can work successfully in a practical, enquiry based, integrated science course.
 - (c) To determine whether the course lays a sound foundation for subsequent work in specialist subjects, e.g. for G.C.E..
 - (d) To determine whether inexperienced teachers can work competently, in the absence of supervision by experienced colleagues, with the degree of guidance provided in the teachers' guides.
 - (e) To study the effect of participating in the project on teachers' attitudes and on their teaching of non-WISCIP classes.
- Description
- The major effort of the project has been devoted to detailed teachers' guides which show the inexperienced teacher (often teaching for the first time, untrained, inexperienced in the practical approach to science teaching and frequently in the absence of senior experienced colleagues) how practical science teaching should be conducted, topic by topic, lesson by lesson, step by step. The content includes some original local material, but draws upon other modern schemes at this level. A limited amount of pupil material, mainly ecological, has been produced. The teachers' guides include tests and end of year examinations have also been written. The guides have been written for 3 science periods per week, but there is enough supplementary material for 4 or 5 periods.

H - Curriculum

Dates of Commencement	- 1968-69: planning and writing Year 1 materials (Consultant: I.W.W.). 1969-70: 21 schools using Year 1 materials: writing years 2 & 3 (Consultant: B.P.). 1970-71: 25 schools using Years 1 & 2 materials.
Expected Date of Completion	- By 1973, all materials will have been tested and revised. Long term aims will still need to be evaluated.
Sources of Finance	- The University of the West Indies: Consultants salaries, secretarial work, production of teachers' guides. Ministry of Education and Culture, Trinidad and Tobago: attachment of Science Supervisor, equipment in schools.

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

22. Name of Institution	- Institute of Education and Research, University of the Punjab, New Campus, Lahore, Pakistan.
Title of Project	- EVALUATION OF CURRICULA AT THE SCHOOL LEVEL
Names of Persons	- <u>A.H. Syed</u> - Professor and Project Director; <u>Dr. Sh. Muizzuddin</u> - Director, Research Operations; <u>Dr. Z.Z. Omer,</u>) <u>Dr. D.M. Malik,</u>) <u>Dr. M. Ilyas,</u>) Assistants. <u>Mr. Mohammad Afzal.</u>)
Main Aim of Project	- The study aims at evaluating the effectiveness of the existing curricula, at various levels, of different types of school education in Pakistan. Necessary changes will be recommended to make the curricula relevant to the present and future needs of individuals and of society.
Date of Commencement	- December, 1971.
Expected Date of Completion	- June, 1972.

H - Curriculum

Source of Finance	- The Ministry of Education, the Government of Pakistan.
Method and Anticipated Date of Publication	- It is expected that the Institute will have published the research reports by the end of 1972.
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23. Name of Institution	- Department of Language, University of York, Britain.
Title of Project	- THE WRITTEN ENGLISH OF GHANAIAN PRIMARY CLASS SIX CHILDREN IN RELATION TO THEIR EXPOSURE TO ENGLISH AS A MEDIUM OF SPOKEN INSTRUCTION
Name of Person and Designation	- <u>C.N. Hawkes</u> - English Language Officer, the British Council, Accra, Ghana.
Main Aim of Project	- To assess the benefit, if any, to attainment in written English accruing from starting English-medium education in the first or second year of primary education rather than in, approximately, the fifth.
Description	- Schools, of comparable quality, were divided into two groups according to whether they began English-medium teaching early or late. A total of 433 primary-six children were given an objective written test of English, Ravens Progressive Matrices (1938) A-C and a home background questionnaire. The mean English attainment scores of the two major sub-groups will be compared, while Matrices scores and a composite home background score (to be estimated by multiple regression analysis) will be held constant. Findings will be discussed in relation to the learning situation of the children, the educational context in Ghana and comparable findings elsewhere.
Date of Commencement	- October, 1969.
Expected Date of Completion	- End of 1972.
Source of Finance	- The research was begun while on paid study leave from the British Council, and is being written up in spare time. The fieldwork trip (January to May, 1970) was financed by a grant made available by the

H - Curriculum

Department of Language, the University of
York.

Method and Anticipated - To be presented for the D.Phil. degree at
Date of Publication the end of 1972. Publication probable in
1973, method yet to be fully decided.
