

## H - CURRICULUM

### General, primary secondary; individual subjects

Name of Institution	- Department of Education, University of Canterbury, New Zealand.
Title of Project	- AN ATTEMPT TO QUANTIFY CRITERIA FOR ASSESSING LEVEL ON BEEBY'S STAGES BY COMPARISON OF PRIMARY EDUCATION SYSTEMS IN QUEENSLAND AND NEW GUINEA. See F.1.
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Name of Institution	- Department of Education, University of Queensland, Australia.
Title of Project	- ANTECEDENTS OF ACHIEVEMENT MOTIVATION IN ABORIGINAL-AUSTRALIAN AND WHITE-AUSTRALIAN GIRLS. See E.3
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Name of Institution	- Department of Education, University of Queensland, Australia.
Title of Project	- A STUDY OF CHILD GROWTH AND DEVELOPMENT IN ABORIGINES. See E.1
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1. Name of Institution	- University of Sydney, Australia.
Title of Project	- RAPID DEVELOPMENT IN SCIENCE AND TECHNOLOGY AND THEIR IMPLICATION FOR SCIENCE EDUCATION IN DEVELOPING COUNTRIES WITH PARTICULAR REFERENCE TO THE PHILIPPINES.
Name of Person	- <u>Aurelio Juele</u>
Main Aim of Project	- To point out the implications of scientific and technological developments for science education in developing countries, with particular reference to the Philippines.
Description	- The project is in two Parts, the first of which examines the implications of scientific and technological developments on (i) the curriculum, its aims, content, method, textbooks, materials and facilities and evaluation procedures; (ii) teacher training; (iii) administration and supervision. This section also draws up recommendations which might be pertinent and

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applicable to countries as they try to develop their science education programmes. The second section is a science curriculum for Filipino students in the first two years in high school, taking into account the rapid advances in science and technology and the present stage of development of the Philippines.

Date of Commencement	- 1961
Expected Date of Completion	- 1969
Source of Finance	- Unknown.
Method and Anticipated Date of Publication	- Thesis presented 1969.

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2.	Name of Institution	- Monash University, Australia.
	Title of Project	- TEACHING SOCIAL SCIENCE CONCEPTS IN PRIMARY 'T' SCHOOLS IN THE TERRITORY OF PAPUA AND NEW GUINEA.
	Name of Person and Designation	- <u>Dr. J.F. Cleverley</u> - Senior Lecturer in Education; <u>Mr. G.L. Johnston</u> - Lecturer
	Main Aim of Project	- The main aim of the project was to determine the feasibility of teaching social science concepts to primary school children in the Territory.
	Description	- The first stage of the project involved a survey of existing practices in the teaching of Social Studies in Primary 'T' schools. As a result of this investigation, and using the knowledge of local conditions thus acquired, two curriculum units were placed in each of two schools, one at baruni on the outskirts of Port Moresby and the other at Goroka in the Eastern Highlands. One unit was directed to the teaching of the concept of 'the family', to Standard III pupils, and the other to the teaching of the concept government, to Standard V pupils. Teachers of the units were provided with detailed lesson guides and several lessons in 'the family' unit were in programmed form. Suggestions for provision of administrative arrangements for Social Studies curriculum innovation arose from the general conclusion with regard to the success of the units: 'a concept approach to the teaching of Social Studies in the territory is a feasible alternative to the existing syllabus. Such an approach could provide the basis for the development

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of an understanding of society more general in its application than can be acquired through a more information-oriented syllabus.'

Date of Commencement	- November, 1967.
Expected Date of Completion	- December, 1968.
Source of Finance	- Department of Education, Territory of Papua and New Guinea.
Method and Anticipated Date of Publication	- A report on the investigation, containing proposals for curriculum reform, was submitted to the Education Department at the end of 1968. This document has been used in discussion of curriculum reforms by a Committee of the Department.
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3. Name of Institution	- Monash University, Australia.
Title of Project	- AN EVALUATION OF SOME ASPECTS OF SCIENCE CURRICULA IN TERRITORY OF PAPUA AND NEW GUINEA SECONDARY SCHOOLS.
Name of Person and Designation	- <u>Lindsay D. Mackay</u> - Lecturer in Education.
Main Aim of Project	- To commence an evaluation of Secondary-School Science courses in T.P.N.G.
Description	- Tests of physics readiness, the Test on Understanding Science and T.P.N.G. examination papers have been used to determine the achievement of students at the end of T.P.N.G. Secondary School science courses. Comparison of performance of T.P.N.G. students and Victorian students on these measures have been made.
Date of Commencement	- 1967.
Expected Date of Completion	- 1971
Source of Finance	- Educational Research Grant, Department of Education, T.P.N.G.
Method of Anticipated Date of Publication	- Preliminary report titled "An evaluation of some aspects of science curricula in Territory of Papua and New Guinea Secondary Schools" was published by Education Department, T.P.N.G., in August 1968. Future reports will be submitted to the Papua and New Guinea Journal of Education in 1969 and 1970.

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Name of Institution	- University of Papua and New Guinea.
Title of Project	- EVALUATION OF TEACHING AND LEARNING MATERIALS IN THE SOCIAL SCIENCES. See C.5
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Name of Institution	- University of Papua and New Guinea.
Title of Project	- TEACHING AND LEARNING MATERIALS FOR THE NEW SOCIAL SCIENCES SYLLABUS FOR SECONDARY SCHOOLS. See 1.2
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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. See C.6
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Name of Institution	- University of Papua and New Guinea.
Title of Project	- EVALUATION OF TEACHING AND LEARNING MATERIALS IN ENGLISH. See C.5
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Name of Institution	- University of Papua and New Guinea.
Title of Project	- EVALUATION OF TEACHING AND LEARNING MATERIALS IN SCIENCE. See C.4
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4. Name of Institution	- Department of Education, University of Hong Kong.
Title of Project	- THE CURRICULA OF CHINESE SECONDARY SCHOOLS: A COMPARATIVE STUDY OF TAIWAN, MAINLAND CHINA AND HONG KONG, 1949-64.
Name of Person and Designation	- <u>Christine Wong</u>
Description	- A comparative survey of syllabuses and teaching methods in use in Chinese Middle Schools in Taiwan, Mainland China and Hong Kong over the years 1949-64.
Date of Commencement	- July, 1967.
Expected Date of Completion	- June, 1969.
Source of Finance	- Department of Education, University of Hong Kong and private sources.

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5. Name of Institution - Department of Education, University of Hong Kong.
- Title of Project - SEX EDUCATION WITH SPECIAL REFERENCE TO HONG KONG.
- Name of Person and Designation - Katherine Y.T. Ho
- Description - A comparative psychological survey of sex education syllabuses and methods in use in U.K. and elsewhere, with an analysis of the problems involved and an appraisal of the values of the courses for Hong Kong.
- Date of Commencement - November, 1969.
- Expected Date of Completion - December, 1971.
- Source of Finance - Department of Education, University of Hong Kong, and private sources.
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6. Name of Institution - School of Education, University of Singapore.
- Title of Project - CHINESE AS SECOND LANGUAGE TESTS FOR PRIMARY SCHOOLS.
- Name of Person and Designation - Gwee Yee Hean - Acting Director of the School, with the collaboration of Messrs. Chew Kok Chang, Ng Yew Kiat and Cheah Chak Mun.
- Description - Six books will be prepared, one for each school year. A total of about 2,000 characters will be used.
- Date of Commencement - Early 1969.
- Expected Date of Completion - Late 1970.
- Method and Anticipated Date of Publication - To be undertaken by the Educational Publication Bureau of the Ministry of Education.
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7. Name of Institution - School of Education, University of Singapore.
- Title of Project - CHINESE EDUCATION PROJECT.
- Name of Person and Designation - Gwee Yee Hean - Acting Director of the School.
- Main Aim of Project - All important documents on the subject will be collected. A chronology of important educational events will be drawn up. A descriptive account of the development of Chinese Education during this period will follow.

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Date of Commencement	- Mid-1967.
Expected Date of Completion	- Late 1970.
Method and Anticipated Date of Publication	- Uncertain yet.
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8. Name of Institution	- National Council of Educational Research and Training, India.
Title of Project	- FUNDAMENTAL RESEARCH ON LANGUAGE AND LINGUISTIC BEHAVIOUR.
Name of Person and Designation	- <u>Professor T. S. Mehta</u> <u>Anil Vidyalankar</u> - Reader, <u>Dr. M.G. Chaturvedi</u> - Reader.
Main Aim of Project	- To do basic research on such aspects of language and linguistic behaviour as are directly related to learning and teaching of language.
Description	- Modern linguistic research is throwing light on some deeper and so far hidden aspects of the nature of language and the linguistic behaviour of man. It is now widely recognised that the best way to study mind is to study language. It is proposed to hold some seminars to collect important ideas regarding language from the Eastern and Western sources and then take up specific research projects that may provide more precise knowledge regarding various facets of linguistic behaviour both of children and adults.
Date of Commencement	- October, 1969.
Expected Date of Completion	- It will be an on-going project.
Source of Finance	- NCERT funds.
Method and Anticipated Date of Publication	- The project will be carried out through seminars, workshops, research studies and experiments in selected areas. The first publication is expected to be out by the end of 1970.
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9. Name of Institution	- National Council of Educational Research and Training, India.
Title of Project	- A LINGUISTIC ANALYSIS AND DESCRIPTION OF THE PHONOLOGICAL VARIATIONS IN STANDARD HINDI.
Name of Person and Designation	- <u>Professor T. S. Mehta</u> <u>Dr. M.G. Chaturvedi</u> - Reader.

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Main Aim of Project	<ul style="list-style-type: none"><li>- The following may be regarded as the specific objectives of the research study:<ol style="list-style-type: none"><li>1. To survey the Hindi speech sounds in the Hindi-speaking areas.</li><li>2. To study the divergent pronunciation of Hindi speech sounds.</li><li>3. To arrive at the norm of standard Hindi sounds.</li><li>4. To analyse the standard Hindi sounds and sound-features i.e. segmental and super-asegmental phonemes of standard Hindi.</li><li>5. To describe the segmental and super-asegmental phonemes of standard Hindi along with their allophonic and dialectal variations.</li><li>6. To arrive at the phonological structure of standard Hindi.</li></ol></li></ul>
Description	<ul style="list-style-type: none"><li>- The standard pronunciation of standard Hindi, unlike British R.P. or standard American pronunciation of English has not yet been linguistically defined. From the point of view of phonology, standard Hindi has many dialects as there are "dialects" or languages spoken in the so-called Hindi-speaking areas. But at the same time there is a type of pronunciation or the phonology of standard Hindi which could be accepted as a norm; and is generally accepted to be so. This phonology or the standard form of spoken Hindi is to be identified and then the phonological variations in Hindi in its dialect areas are to be studied.</li></ul>
Date of Commencement	<ul style="list-style-type: none"><li>- July, 1968.</li></ul>
Expect Date of Completion	<ul style="list-style-type: none"><li>- July, 1971.</li></ul>
Source of Finance	<ul style="list-style-type: none"><li>- NCERT funds.</li></ul>
Method and Anticipated Date of Publication	<ul style="list-style-type: none"><li>- The results of the project will be presented and published in the following two forms in 1971-72:<ol style="list-style-type: none"><li>1. A Reference Book on "A Linguistic Study of Hindi Phonology".</li><li>2. Approximately 20 hand-books for teachers of Hindi in different dialect areas of Hindi-speaking states on "The Teaching of Spoken Hindi, Its Problems and Methods."</li></ol></li></ul>
10. Name of Institution	<ul style="list-style-type: none"><li>- National Council of Educational Research and Training, India.</li></ul>
Title of Project	<ul style="list-style-type: none"><li>- NATIONAL SCIENCE TALENT SEARCH SCHEME.</li></ul>

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Name of Person and Designation	- <u>Dr. M.C. Pant</u> and other members of the Department of Science Education.
Main Aim of Project	- 1. To locate and nurture talented students with an aptitude for science selected at the end of the secondary stage. 2. To improve the methods of teaching science in schools by this method.
Description	- The scheme provides for the selection and nurturing of gifted students in science and mathematics at the close of the secondary stage. About 350 awards are made each year under the scheme. Each year these students are made to attempt 4-5 weeks Summer Programme organised at the University Centres in order to provide an enriched and accelerated experience in their areas of study. At present there are about 820 awardees receiving assistance under the scheme.
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11. Name of Institution	- National Council of Educational Research and Training, India.
Title of Project	- STUDY OF THE PRESENT POSITION OF LANGUAGES IN THE SCHOOL CURRICULUM IN DIFFERENT STATES AND UNION TERRITORIES OF INDIA.
Name of Person and Designation	- <u>Professor T.S. Mehta</u> <u>Dr. M.G. Chaturvedi</u> - Reader, <u>B.V. Mohle</u> - Senior Research Assistant.
Main Aim of Project	- To assess the position with regard to the study of different languages at different stages of school education in different states and Union territories in India.
Description	- Under the study, following aspects are being considered: 1. Languages studied in different states at different stages of school education and to assign them to the language families to which they belong; 2. Status (Compulsory or optional) of the languages being studied at different stages in different states; 3. The weightage assigned to different languages in the total instructional programme of the curriculum as revealed by the allotment of time and marks in examination. 4. The stages when second, third and classical languages are introduced; 5. The objectives of teaching first, second and third languages as envisaged in the syllabi of the States.

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Date of Commencement	- July, 1968.
Expected Date of Completion	- July, 1970.
Source of Finance	- NCERT funds.
Method and Anticipated Date of Publication	- The report of the study will be published in a book form entitled "A Critical Study of Language Instruction in India" by the NCERT in 1970.
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12. Name of Institution	- Department of Education, University College, Nairobi, Kenya.
Title of Project	- A STUDY OF THE AKAMBA TRADITIONAL EDUCATION AND ITS RELATIONSHIP WITH FORMAL PRIMARY SCHOOLING.
Name of Person and Designation	- <u>David N. Kimilu</u> - Secondary school teacher.
Date of Commencement	- September 1969.
Expected Date of Completion	- June, 1971.
Source of Finance	- Ministry of Education/private
Method and Anticipated Date of Publication	- Not envisaged.
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13. Name of Institution	- Department of Education, University College, Nairobi, Kenya.
Title of Project	- GENERAL STUDIES IN THE FIFTH AND SIXTH FORMS IN KENYAN SCHOOLS.
Name of Person and Designation	- <u>Anthony J. Reynolds</u> - Secondary school teacher.
Date of Commencement	- November, 1968.
Expected Date of Completion	- July, 1970.
Source of Finance	- Ministry of Education/private
Method of Anticipated Date of Publication	- Not envisaged.
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14. Name of Institution	- Department of Education, Makerere University College.
Title of Project	- PREPARATION OF MATHEMATICS TEXTBOOKS AND TEACHERS' GUIDE FOR SECONDARY SCHOOL.
Name of Person and Designation	- <u>Moirra Harbottle</u> - Senior Lecturer (Maths); in conjunction with teachers

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	and educators in Uganda, Kenya and Tanzania.
Main Aim of Project	- To produce textbooks suitable for pupils in East Africa for the first four years of secondary school on 'New Mathematics'. To produce Teachers' Guides for this material for teachers who are unfamiliar with these new approaches.
Description	- The aim of the project was to adapt the School Mathematic Project books for use in East Africa. After a year of this the aim changed to writing tests for East Africa with the S.M.P. texts as a guide. Ideas from teachers and from the experience of authors were incorporated into the tests. The project has an Editorial Board which guides the writing of the tests. The writing of the tests is done by practising teachers in the schools. Most of the work is done in the spare time of these teachers and of the Editorial Board, although there are two full-time members of the Board in Nairobi.
Date of Commencement	- July, 1965.
Expected Date of Completion	- 1972.
Source of Finance	- From the writers' pocket (most people are out of pocket on the early books) and in the last years from the publishers.
Method and Anticipated Date of Publication	- The Project has produced six books: School Mathematics Project of East Africa, Books 1-4, Draft editions 1956, 1966, 1967, 1968. School Mathematics of East Africa, Book 1, 1968. School Mathematics of East Africa, Book 2, 1969. It is proposed to publish Book 3 in 1970, Book 4 in 1971. Teachers' Guides are due to be published in 1970, 1971, 1972, 1973 respectively, although it may be possible to put more writers on to them after 1970 and complete them by 1972.
Name of Institution	- Audio-Visual Aids Centre, National Institute of Education, Makerere University College, Uganda.
Title of Project	- THE PRODUCTION AND REPRODUCTION OF ILLUSTRATIONS FOR USE IN PRIMARY SCHOOLS IN UGANDA. See I.5

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| 15. | Name of Institution                        | - Makerere University College, Uganda.  |
|     | Title of Project                           | - SCHOOL SCIENCE PROJECT: PHYSICS.  |
|     | Name of Person and Designation             | - <u>M.K. Woolman</u> - Senior Lecturer in Education (Physics).   |
|     | Main Aim of Project                        | - To develop a secondary school physics course appropriate for E. Africa.   |
|     | Description                                | - Stemming from a physical Science Curriculum Conference in April, 1966 and a refresher course for physics teachers in April, 1967, a Physics Working Party was set up which has met monthly for two years to work out, on the basis of East Africa needs and in active collaboration with those concerned in Kenya and Tanzania, a secondary school physics course outline and suitable teaching approaches. This draft course is being tried out in a limited number of secondary schools. Feedback reports from these schools are analysed as a basis for revision, and revised support materials for both teachers and pupils are being prepared for publication as the Ministries of Education may desire. |
|     | Date of Commencement                       | - Effectively June, 1967 (groundwork in previous 18 months).  |
|     | Expected Date of Completion                | - About 1973, but ongoing revision envisaged as essential.  |
|     | Source of Finance                          | - CREDO (London) and Uganda Ministry of Education.  |
|     | Method and Anticipated Date of Publication | - To be decided upon by Ministries of Education.  |
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| 16. | Name of Institution            | - Human Development Research Unit, University of Zambia.   |
|     | Title of Project               | - FIRST LANGUAGE INTERFERENCE IN THE USE OF ENGLISH BY ZAMBIAN SCHOOLCHILDREN.   |
|     | Name of Person and Designation | - <u>Dr. Robert Serpell</u> - Lecturer in Psychology.  |
|     | Main Aim of Project            | - Estimation of the importance of interference errors in the classroom.  |
|     | Description                    | - This research follows up the demonstration in earlier research (Serpell, R. (1968) Selective attention and interference between first and second languages. <u>I.S.R. Communication, 4</u> , Lusaka: |

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University of Zambia) that patterns of error differ among English-speaking, Gujerati-speaking and Bantu-language-speaking pupils equated for general error rate in English. Errors which can reliably be traced to interference by the first language will be compared in frequency among secondary-school pupils to other types of error.

Date of Commencement	- January, 1970.
Expected Date of Completion	- October, 1970.
Source of Finance	- British Government, Ministry of Overseas Development Grant to University of Zambia for Human Development Research Unit.
Method and Anticipated Date of Publication	- HDRU Report in 1970, subsequently in African journal.
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17. Name of Institution	- Science Education Centre, School of Education, University of Zambia.
Title of Project	- PRIMARY SCIENCE CURRICULUM PROJECT.
Name of Person and Designation	- <u>G.W.G. Fulcher</u> - Research Fellow.
Main Aim of Project	- To provide stimulating experiences for young Zambian children and thereby lay the foundation of scientific concepts.
Description	- The specific objectives are: (a) training in sensory discrimination (b) free and directed play with games and constructional toys (c) systematic introduction to experiences designed to develop the concept of classification (d) activities designed to develop manipulative skills (e) experiences designed to develop the concept of space (f) experiences designed to develop some ideas of seriation (g) some experiences outlined above to develop reasoning skills. General aim: performance and intellectual growth of children entering school can be significantly improved by providing stimulation in the form of mechanical and constructional play materials within the classroom.
Date of Commencement	- The present phase was started in June, 1968.

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- Expected Date of Completion - First phase June 1970, then Grade 3 and Grade 4 by January 1972.
- Source of Finance - Initially Baird and Tatlock Co., London, England, then internal funding from June 1970.
- Method and Anticipated Date of Publication - First stage publication regarding the first two years of formal education - March 1970.
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18. Name of Institution - Institute of Education, University of Ibadan, Nigeria.
- Title of Project - THE DESIGN AND PRODUCTION OF A SUITABLE TEXTBOOK OR A SERIES FOR SCHOOL CERTIFICATE GEOGRAPHY IN WEST AFRICA.
- Name of Person and Designation - Dr. J.A. Majasan - Associate Professor of Education.
- Main Aim of Project - To produce a text book or series of textbooks which will give satisfactory geographical knowledge required by young citizens of the modern age in the West African setting.
- Description - The establishment of a small field unit to collect local examples of standard geographical terms, physical, social short trial texts written from the human approach to link them with people's activities food, development and information from other parts of the world. The University Staff School and the International School may be convenient institutions for trying out such texts.
- Date of Commencement - October, 1968.
- Expected Date of Completion - December, 1972 (if supported with grants).
- Source of Finance - Grants from outside bodies.
- Method and Anticipated Date of Publication - Depends on the availability of funds.
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19. Name of Institution - Institute of Education, University of Ibadan, Nigeria.
- Title of Project - AN INVESTIGATION INTO THE TEACHING OF HISTORY IN WESTERN NIGERIA WITH PARTICULAR REFERENCE TO SELECTED SECONDARY GRAMMAR SCHOOLS.

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Name of Person and Designation	- <u>Samuel A. Adejunmobi</u> - Lecturer in History Teaching and Comparative Education.
Description	- 1. Review of the literature on the objectives of history taught at the secondary school level and the methods of teaching it. 2. Determination of the extent to which secondary school history teachers have conformed or deviated from the universally accepted principles of history teaching. 3. Determination of the position of history among subject preferences in the Western State of Nigeria. 4. Determination of differentiated interests of boys and girls in history, if any.
Date of Commencement	- October 1st, 1967.
Expected Date of Completion	- June, 1971
Source of Finance	- Personal and Senate Research Fund.
Method and Anticipated Date of Publication	- Method would be primarily that of educational survey and hypothesis testing. Date not known.

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20. Name of Institution	- Department and Institute of Education, University of Ibadan, Nigeria.
Title of Project	- REVISION OF NEW OXFORD ENGLISH COURSE (NIGERIA), TEACHERS AND PUPILS BOOKS 1, 2, 3, 4, 5 and 6.
Name of Person and Designation	- <u>Professor D.C. Miller</u> - Professor of Education.
Main Aim of Project	- 1. Provision of up-to-date textbooks for teaching and learning English in Nigerian primary schools. 2. Dissemination through the Teachers Books of detailed statement of application of modern ideas and procedures in non-mother-tongue language teaching.
Description	- 1. Through revision of all reading material in the original series including the provision of new material where necessary. 2. Complete replacement of former exercise material in the Pupils Books with i) graded exercises from Book 2 to Book 6 in English structure; ii) graded comprehension exercise course in Books 2 to 6;

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- iii) new composition course in Books 5-6.
- 3. Provision of a completely new series of Teachers Books providing, inter-alia:
  - i) detailed description of the teaching of each new item throughout the course;
  - ii) detailed account of the aim and treatment of each exercise in all the Pupils Books;
  - iii) complete listing of every item of vocabulary so that for example the first presentation of putting (pres. cont.) putting (past. cont.) putting (gerund), etc. is separately listed, the first presentation of the 38 different uses of to in Book 2 only are separately listed, etc.;
  - iv) complete listing of each new structure presented.

Date of Commencement	- 1966.
Expected Date of Completion	- 1972.
Source of Finance	- None.
Method and Anticipated Date of Publication	- Teachers & Pupils, Book 1: 1967; "                   "       "       2: 1968; "                   "       "       3: 1969; "                   "       "       4: in the press; "                   "       "       5: in preparation.

Name of Institution	- Nigerian Institute for Social and Economic Research, Nigeria.
Title of Project	- SCHOOL LEAVERS AND THEIR EMPLOYMENT PROBLEM. See M.10

21.	Name of Institution	- College of Education, University of Lagos.
	Title of Project	- PROGRAMMING OF PHYSIOLOGICAL-BIOCHEMICAL TOPICS FOR USE IN UNDERGRADUATE BIOLOGY INSTRUCTION.
	Name of Person and Designation	- <u>Professor D. Morgan</u> - Associate Professor of Education.

22.	Name of Institution	- College of Education, University of Lagos.
	Title of Project	- A STUDY OF FACTORS IN TEACHER-PUPIL RELATIONSHIPS AS MATERIAL FOR THE FORMULATION OF AN INTEGRATED PRIMARY LEVEL CURRICULUM.

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Name of Person and Designation	- <u>Professor D. Morgan</u> - Associate Professor of Education, in conjunction with <u>Dr. J.E. Adetoro</u> , <u>E.O. Fagbongbe</u> and <u>B.A. Babalola</u> .
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23. Name of Institution	- Faculty of Education, Ahmadu Bello University, Nigeria.
Title of Project	- ATTITUDE AND ACHIEVEMENT IN A PROGRAMMED UNIT OF GEOGRAPHY.
Name of Person and Designation	- <u>P.O. Okunrotifa</u> - Lecturer in Education, Department of Education.
Main Aim of Project	- (a) To measure the attitude of Nigerian Pupils towards geography when it is presented by programmed instruction. (b) To measure the attitude of the pupils towards programmed instruction. (c) To find the correlation between the attitude towards geography and attitude towards programmed instruction and achievement in geography.
Date of Commencement	- July, 1969.
Expected Date of Completion	- 1970.
Source of Finance	- Department of Education, A.B.U., Zaria.
Method and Anticipated Date of Publication	- October - December 1970.
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24. Name of Institution	- Faculty of Education, University of Ife.
Title of Project	- SCIENCE TEACHING IN SECONDARY INSTITUTIONS IN WESTERN NIGERIA.
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25. Name of Institution	- Njala University College, University of Sierra Leone.
Title of Project	- CONSERVATION OF QUANTITY AMONG MENDE CHILDREN.
Name of Person and Designation	- <u>Dr. R. Ogbonna Ohuche</u> - Senior Lecturer, Teacher Education Director, Experimental School.
Main Aim of Project	- Investigate aspects of Piaget's theory and determine implications for the mathematical education of Mende children.
Description	- An individually administered oral test that was prepared locally is being given to children between the ages of 5 and 7+ in 16 schools in the Southern and Eastern Provinces of Sierra Leone. The idea is

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		to test the validity of Piaget's stage-dependent theory in this setting. Variables like the type and location of school have been considered in the design.
	Date of Commencement	- September, 1968.
	Expected Date of Completion	- August, 1969.
	Source of Finance	- Research and Publications Committee of Njala University College.
	Method and Anticipated Date of Publication	- Submission to Journal early 1970.
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26.	Name of Institution	- Department of Education in Tropical Areas, University of London Institute of Education
	Title of Project	- CURRICULUM DEVELOPMENT IN PRIMARY EDUCATION IN UGANDA.
	Name of Person and Designation	- <u>H. Hawes</u> - Lecturer in Education in Tropical Areas.
	Description	- Historical study and field observations of past and current curriculum development in Uganda
	Date of Commencement	- October, 1968.
	Expected Date of Completion	- December, 1970.
	Source of Finance	- Self-financed.
	Method and Anticipated Date of Publication	- Copy to be deposited in University of London Library, form of publication yet to be determined.
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27.	Name of Institution	- Institute of Education, University of Keele.
	Title of Project	- DEVELOPMENT AND RECONSTRUCTION OF SECONDARY SCHOOL CURRICULUM IN W. PAKISTAN, WITH SPECIAL REFERENCE TO SOCIAL STUDIES.
	Name of Person	- <u>S.A.S. Kazmi</u>
	Expected Date of Completion	- 1970.
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28.	Name of Institution	- Institute of Education, University of Leeds.
	Title of Project	- AN ANALYSIS AND DEVELOPMENT OF THE LANGUAGE SKILLS REQUIRED FOR NOTE-TAKING.
	Name of Person and Designation	- <u>J.B. Heaton</u> - Lecturer in English for Overseas students.

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Description	- An investigation into the complex processes involved in note-taking, where English is used as a second or foreign language. The investigation will take into account competence in the second language, bilingualism and also various paralinguistic factors arising from lectures.
Date of Commencement	- October, 1969.
Expected Date of Completion	- 1971.
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29. Name of Institution	- Institute of Education, University of Leeds.
Title of Project	- A SURVEY OF METHODS OF PRESENTATION IN TEACHING ENGLISH AS A SECOND OR FOREIGN LANGUAGE.
Name of Person and Designation	- <u>A.E. Smith</u> - Lecturer in Education.
Main Aim of Project	- To stimulate overseas teachers to use a wider variety of methods of teaching.
Description	- A compilation of the various ways in which language skills can be developed through different types of exercise, with particular reference to secondary-school learners. This may include some discussion of general principles.
Date of Commencement	- April, 1969.
Expected Date of Completion	- 1971-72.
Source of Finance	- None.
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30. Name of Institution	- Institute of Education, University of Leeds.
Title of Project	- THE TEACHING OF WRITING SKILLS.
Name of Person and Designation	- <u>B.E. Foster</u> - Lecturer in English.
Description	- An enquiry into the nature of the skills required, with a view to preparing a writing programme which could be adapted for teaching specialised varieties of written English, e.g. the English of Science, Education, Commerce etc.
Date of Commencement	- 1969.
Expected Date of Completion	- 1970/71.
Source of Finance	- None at present.

## H - Curriculum

31. Name of Institution - University of the West Indies, Institute of Education.
- Title of Project - EVALUATION OF AN ORIENTATION WORKSHOP: A PHASE OF CURRICULUM DEVELOPMENT IN MATHEMATICS.
- Name of Person - D.R. Broomes - Research Fellow.
- Brief Background - In 1966, the University of the West Indies, Institute of Education held a mathematics study conference in St. Lucia for mathematics tutors in Teachers' Colleges in the British Caribbean. This Conference produced guides and curriculum materials for Teachers' Colleges. For St. Lucia the immediate product of this conference was a hive of mathematics activities in the Teachers' College and primary schools, and the formation of a committee in 1966 to carry forward and expand the work of mathematics curriculum reforms. Hence the St. Lucia Mathematics Project.  
To date the activities of the St. Lucia Mathematics Project have produced:  
a) workbooks for pupils  
b) manuals for teachers  
c) tests for pupils and teachers  
d) teaching and learning aids and devices  
e) library resources for schools  
f) supervisory assistance in mathematics for schools.
- Objectives of Evaluation Workshop - Two considerations motivated the planning and execution of the orientation workshop  
1) what is mathematics  
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.

## H - Curriculum

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

### Method of Evaluation

- 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. At statistic was used to test the hypothesis of change before and 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.

The main findings of the study show that:

1. Teachers who underwent the experience of the orientation workshop acquired more knowledge and better understanding of the mathematics taught in the new Grade 1 programme.
2. Teachers who underwent the experience of the workshop understood better the physical, mental and emotional characteristics of boys and girls who are in Grade 1 of St. Lucia schools.
3. Teachers who underwent the experiences of the workshop made no significant changes in their attitudes towards mathematics.
4. Teachers who underwent the workshop established profitable relationships with other teachers throughout the school system.
5. The activities of the Workshop were equally attractive to teachers of different abilities and status; to teachers of many years experience as well as to teachers of a few years experience.

### 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.

## H. Curriculum

Name of Institution	- University of the West Indies, Institute of Education, Jamaica, W.1.
Title of Project	- EVALUATION OF AN ORIENTATION WORKSHOP: A PHASE OF CURRICULUM DEVELOPMENT IN MATHEMATICS. See C.29
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Name of Institution	- University of the West Indies Institute of Education, Jamaica, W.1.
Title of Project	- <u>ARITHMETIC TEST REPORT.</u> See C.28
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32. Name of Institution	- University of the West Indies Institute of Education, Jamaica.
Title of Project	- A WEST INDIAN SCIENCE CURRICULUM INNOVATION PROJECT.
Name of Person and Designation	- <u>I.W. Williams</u>
Main Aim of Project	- A science programme for 11-14 year old secondary school students in Trinidad.
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Name of Institution	- Wisconsin State University.
Title of Project	- LINGUISTIC IMPEDANCE AND DIALECT INTERFERENCE AMONG CERTAIN AFRICAN TRIBES. See F. 35
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