

H - CURRICULUM

General, primary, secondary;
particular subjects of disciplines

1. Title of Project
SIMPLIFIED TEXTS

Institution

University of Papua New Guinea.

Names of Persons and Designations

R.K. Johnson, Lecturer

Dr. J. Jones, Educational Research Unit

Main Aims of Project

To establish procedures for evaluating the linguistic complexity of a given passage. To study the effects on comprehension of semantic and syntactic simplification.

Description

Various methods for evaluating levels of complexity have been applied to texts. Students' performance in relation to these texts has been tested in terms of speed and accuracy.

Date of Commencement - 1973

Source of Finance

Teaching Methods and Materials Centre/
Educational Research Unit

Method of Publication

Forthcoming Research Report.

2. Title of Project

TEACHING MATERIALS BOOKLET:
STRESS, RHYTHM AND INTONATION
OF ENGLISH

Institution

University of Papua New Guinea.

Name of Person and Designation

R.K. Johnson, Lecturer

Main Aim of Project

To provide teaching materials for secondary schools in Papua New Guinea.

Description

The materials are based upon research work into communication problems of second language speakers of English through failure to discriminate the semantic cues carried by the stress, rhythm and intonation patterns of English. Exercises are being devised which exploit situations of potential communication breakdown in order to

establish the patterns for the learner.

Date of Commencement - February, 1972

Source of Finance

Teaching Methods and Materials Centre.

Method of Publication

Teaching Methods and Materials Centre.

3. Title of Project

EVALUATION OF THE THREE PHASE
PRIMARY SCIENCE PROJECT

Institution

University of Papua New Guinea.

Names of Persons and Designations

J.M. Wilson, Lecturer

Mrs. A.H. Wilson, Professional Assistant

Main Aim of Project

To evaluate the operation of TPPS in the classroom and the cognitive and affective outcomes.

Description

The first part of the project involved lesson observation and science teacher interview throughout Papua New Guinea. A structured observation schedule, using mainly multiple choice responses but including some open ended items was used to collect detailed observations of 2481 science lessons in 236 primary schools throughout Papua New Guinea. A computer analysis of the data gave a clear picture of the strengths and weaknesses of the course in the classroom situation. (A detailed report is available from the Teaching Methods and Materials Centre of the University of Papua New Guinea).

The second part of the project got under way at the end of 1972. As a first step in the preparation of cognitive pupil tests an analysis of the science concepts (and skills) involved in TPPS has been undertaken. The construction of multiple choice tests is now under way. In addition a simple paper and pencil test of attitude towards science and science lessons has been prepared and is at present being trialled. Studies of further outcomes such as manual skills and problem solving ability are also envisaged.

Date of Commencement - March, 1970 (Part One), July, 1972 (Part Two)

H - Curriculum

Date of Completion - December, 1972
(Part One), 1975 (Part Two)

Source of Finance

UNESCO and Department of Education,
Papua New Guinea.

Method and Date of Publication

Reports to Department of Education:

Interim December 1973 (Part 2)

Final July 1975 (Part 2)

Published by Teaching Methods and
Materials Centre of University of Papua
New Guinea (Report on Part 1 published
in December, 1972)

4. Title of Project

INTENSIVE READING MATERIALS WITH
QUESTIONS AND DISCUSSION TOPICS

Institution

University of Papua New Guinea.

Names of Persons and Designations

R.K. Johnson, Lecturer

R.J. Wingfield, UNESCO Adviser

Main Aim of Project

To provide interesting and relevant
materials for Papua New Guinean secondary
schools using English as a second language
medium of instruction.

Description

Passages have been chosen for their
relevance and interest to Papua New
Guineans. Questions are multiple choice.
True/false and free choice, and discussion
topics are suggested based upon each
passage.

Date of Commencement - 1972

Source of Finance

TMMC/UNESCO Project, Goroka
Teachers' College

Method of Publication

Teaching Methods and Materials Centre in
conjunction with the Department of
Education

5. Title of Project

ERROR CARDS

Institution

University of Papua New Guinea.

Names of Persons and Designations

R.K. Johnson, Lecturer

R.J. Wingfield, UNESCO Adviser

Main Aim of Project

To provide individualised remedial
exercises for secondary school pupils
in Papua New Guinea learning English as
a second language.

Description

The materials are based on a number of
surveys of common syntactic errors in the
written work of Papua New Guinean
secondary pupils. These materials are
designed to teach both the forms and the
concepts which the forms embody.

Date of Commencement - 1972

Source of Finance

TMMC/UNESCO Project, Goroka
Teachers' College

Method of Publication

Teaching Methods and Materials Centre
in conjunction with the Department of
Education

Title of Project

SECONDARY SOCIAL SCIENCES
PROJECT

Institution

University of Papua New Guinea.

See F 1

6. Title of Project

WHAT TO TEACH AND HOW TO TEACH
HISTORY IN KENYA SECONDARY
SCHOOLS

Institution

Bureau of Educational Research, University
of Nairobi, Kenya.

Name of Person and Designation

M.T. Wang'ombe, Lecturer

7. Title of Project

STUDIES IN CURRICULUM DEVELOP-
MENT

Institution

Institute of Education, University of Dar
es Salaam, Tanzania.

H - Curriculum

Names of Persons and Designations

Mrs. R.U. Okonkwo, Editor
H.J. White, Editor

Main Aim of Project

To provide useful information to all those interested in the present curriculum development studies.

Description

Some authors (11 of them) have reported on the current curriculum developments in Mathematics, Kiswahili, English Language, Biology, Chemistry and Physics. One article deals with educational research. Some of the authors have made a case for change, while pointing out possible problems and challenges ahead.

Date of Completion - 1972

Source of Finance

Institute of Education, University of Dar es Salaam.

Date of Publication - 1973

8. Title of Project

SECONDARY MATHEMATICS BOOK 3
AND SECONDARY MATHEMATICS
BOOK 3 - ANSWERS GUIDE

Institution

Institute of Education, University of Dar es Salaam, Tanzania.

Name of Person and Designation

G. Mmari, Director

Main Aim of Project

The book meets the need of a suitable course in Mathematics for secondary schools in Tanzania

Description

Chapters of this book were written by teachers who had been teaching modern Mathematics in secondary schools in Tanzania and discussed in detail at writers' workshop.

Date of Commencement - 1970

Date of Completion - 1972

Source of Finance

Ministry of National Education and Institute of Education for Answers Guide.

Date of Publication - 1972

9. Title of Project

SECONDARY MATHEMATICS BOOK 4
AND SECONDARY MATHEMATICS
BOOK 4 - ANSWERS GUIDE

Institution

Institute of Education, University of Dar es Salaam, Tanzania.

Name of Person and Designation

G. Mmari, Director

Main Aim of Project

The book meets the need of a suitable course in Mathematics for secondary schools in Tanzania.

Description

Chapters of this book were written by teachers who had been teaching modern Mathematics in secondary schools in Tanzania and discussed in detail at writers' workshop.

Date of Commencement - 1971

Date of Completion - 1972

Source of Finance

Ministry of National Education and Institute of Education for Answers Guide.

10. Title of Project

THE TEACHING OF PHYSICS

Institution

Institute of Education, University of Dar es Salaam, Tanzania.

Name of Person

S.R. Nkonoki (edited by)

Main Aim of Project

A handbook for Physics teachers

Description

This handbook for Physics teachers is a selection of articles on various aspects of physics teaching written by experienced teachers most of whom taught in secondary schools of Tanzania.

Date of Commencement - 1970

Date of Completion - 1972

Source of Finance

Institute of Education, University of Dar es Salaam.

Date of Publication - July, 1973

11. Title of Project
TANZANIA PRIMARY SCIENCE
PROGRAMME

Institution
Institute of Education, University of Dar
es Salaam, Tanzania.

Name of Person
Dr. E.A. Godfreden (edited by)

Main Aim of Project
Improvement of Science for Primary
Education

Description
This is a report which contains a
description of the objectives and activities
of the Tanzania Primary Science
Programme between July 1966 and March
1972. The most important part of the
report is the many contributions from
children, teachers and tutors.

Date of Commencement - 1966

Date of Completion - 1972

Source of Finance
Ministry of National Education

Date of Publication - 1972

12. Title of Project
PRONUNCIATION TEACHING

Institution
Institute of Education, University of Dar
es Salaam, Tanzania.

Edited by English Language Panel of
Institute of Education

Main Aim of Project
To help secondary school teachers in
teaching English pronunciation.

Description
282 pages

Date of Commencement - 1971

Date of Completion - 1972

Source of Finance
Institute of Education, University of Dar
es Salaam.

Date of Publication - 1972

13. Title of Project
SOIL CHEMISTRY

Institution
Institute of Education, University of Dar
es Salaam, Tanzania.

Name of Person
P.H. Mlay (edited by)

Main Aim of Project
A guide to teacher towards teaching of
Soil Chemistry.

Description
There are two booklets - the first is a
survey of the general principles of soil
chemistry, and the second has a topic on
plant nutrients.

Date of Commencement - 1970

Date of Completion - 1971

Source of Finance
Institute of Education, University of Dar
es Salaam.

Date of Publication - August, 1973

14. Title of Project
S.S.P. CHEMISTRY - A COLLECTION
OF READERS FOR EAST AFRICA

Institution
Institute of Education, University of Dar
es Salaam, Tanzania.

Names of Persons
J. Pendaeli
J. Kent

Main Aim of Project
Supplementary materials for teachers
teaching S.S.P. Chemistry in secondary
schools of Tanzania.

Description
It contains the following topics:

- a) Copper in Uganda
- b) The Discovery of the Electric Current
- c) Preparation of Iron and Steel,
Traditional and Modern
- d) The Chemical Elements

Date of Commencement - 1971

Date of Completion - 1971

Source of Finance
Institute of Education, University of Dar
es Salaam, Tanzania.

Date of Publication - 1972

15. Title of Project
ENGLISH LANGUAGE TEACHER'S
HANDBOOK

Institution
Institute of Education, University of Dar
es Salaam, Tanzania.

Prepared by English Language Panel
Edited by M.P. Nyagwaswa

Main Aim of Project
To help secondary school teachers in
teaching English Language.

Description
It contains methodology and sample
materials.

Date of Commencement - June, 1972

Date of Completion - June, 1973

Source of Finance
Ministry of National Education.

Date of Publication - December, 1973

16. Title of Project
CURRICULUM DEVELOPMENT

Institution
Institute of Education, University of Dar
es Salaam, Tanzania.

Name of Person
Dr. A.A. Lema

Main Aim of Project
Thoughts for discussion of curriculum
development.

Description
The author mainly deals with effect of
education on culture and society and its
relevance to curriculum development in
Tanzania.

Source of Finance
Institute of Education, University of Dar
es Salaam.

Date of Publication - 1973

17. Title of Project
A STUDY TO APPLY SUCCESSIVE
EVALUATION - REVISION PROCEDURES
TO IMPROVE MAP READING INSTRUCTION
IN NIGERIAN PRIMARY SCHOOLS

Institution
Department of Education, University of
Ibadan, Nigeria.

Name of Person and Designation
Dr. P.O. Okunrotifa, Senior Lecturer
in Curriculum Development

Main Aims of Project
(a) To adapt for Nigerian Primary Six
pupils the programme: Maps, How We
Read Them, - actually written for the
American fifth and sixth graders.
(b) To validate, by means of successive
evaluation-revision model, the adapted
programmed materials in order to tailor
them to a target Population of Nigerian
Primary Six pupils.
(c) To compare the achievement and
attitudes of the pupils using the original
American programme with those using the
adapted materials.

Date of Commencement - November, 1972

Date of Completion - September, 1973

Source of Finance
International Centre for Educational
Evaluation, Institute of Education,
University of Ibadan, Nigeria.

Method and Date of Publication
Submission to Journal, 1974 October.

18. Title of Project
THE INTEGRATION OF EDUCATIONAL
EXPERIENCES: THE PLACE OF
GEOGRAPHY WITHIN THE CONCEPT
OF SOCIAL STUDIES IN WESTERN
NIGERIA SECONDARY SCHOOLS

Institution
Institute of Education, University of Ibadan,
Nigeria.

Name of Person and Designation
I.O. Ajimoko, Research Fellow

H - Curriculum

Main Aim of Project

To make an analytical study of the geographic offerings and approach to the design and implementation of the curriculum in selected secondary schools in Western Nigeria.

Description

This study was predicated on the basic assumptions that

- (i) "if schools are to prepare young people for competent adulthood in society they must always operate within the cultural, economic, social, political and moral ideals and values of the society";
- (ii) that the general pattern of the secondary school geography curriculum in Nigeria has not changed significantly since colonial days;
- (iii) that the geography curriculum is likely to remain a major requirement of study in schools as an independent discipline;
- (iv) that content selection is not systematically related to the needs of the Nigerian society and is therefore not in conformity with principles of curriculum construction.

The study was confined to the Western State of Nigeria with samples drawn among the school principals, secondary schools, geography teachers and Form III pupils. The main instruments were three sets of questionnaires.

Date of Commencement - October, 1968

Date of Completion - November, 1972

Source of Finance

University scholarship and personal sources.

Title of Project

DESIGNING A SUITABLE GEOGRAPHY TEXTBOOK FOR NIGERIAN SECONDARY SCHOOLS

Institution

Department and Institute of Education, University of Ibadan, Nigeria.

See 18

19. Title of Project

INVESTIGATION OF THE TRANSACTION OF AN INTEGRATED SCIENCE CURRICULUM

Institution

Faculty of Education, Department of Curriculum Development, University of Cape Coast, Ghana.

Name of Person and Designation

Mrs. S. Lutterodt, Lecturer

Main Aims of Project

To investigate the translation of curriculum materials, prepared by a project team, into use in ordinary classrooms. To investigate some of the factors constraining innovation in science teaching, particularly those relating to the teacher. To evaluate the effectiveness of the curriculum materials prepared by the Project for Science Integration (Lower Secondary Group) in Ghana in communicating their intentions and methods to teachers in the schools.

Description

The research is to be carried out in conjunction with the Phase II trials of the materials produced by the Project for Science Integration (Lower Secondary Group) in Ghana. It is concerned with the way in which the prepared materials are actually transacted in the classroom and focuses primarily on the role of the teacher in interpreting and using the curriculum materials; it will exclude any consideration of learning outcomes.

The problem is to be studied by means of both an intensive and an extensive investigation. These are designed to be complementary both as regards the methodology and techniques used and also as regards the type of information gathered. Comparison of the two approaches is an additional methodological interest of the research. The intensive investigation involves close observation of a very small number of classrooms as they implement one or more sections of the course. A minimum framework for observation and interview will be prepared but this will be fluid and open to development throughout the course of the research. The method will be qualitative and intuitional, pursuing insights, developing hypotheses. The primary purpose will be to see how far and in what ways the transactions differ from the intended curriculum, to try to understand the reasons for any differences.

The extensive investigation, involving the prior preparation and testing of a number of instruments, is necessarily more rigid in its scope. It is proposed to investigate the teachers attitudes and opinions about science and science teaching both before exposure to the course and after using it

for some time, their opinions about the prepared materials and modifications they have found it necessary to make. Further information about the classroom transactions will be obtained from observers, appointed by the project, who will be visiting the trial classrooms and also by questioning the students on their classroom experience in science. Throughout it will be stressed that it is not the teachers who are being evaluated, but that it is the effectiveness of the curriculum, in meeting the needs of the real classroom situation, which is in question.

Date of Commencement - October, 1973

Date of Completion - 1976

Source of Finance

University of Cape Coast, Ghana.

20. Title of Project

NEW PROGRAMME IN SOCIAL STUDIES

Institution

Institute of Education, University of Sierra Leone.

Name of Person and Designation

Mrs. T.A. Lucan, Social Studies Curriculum Adviser (seconded from the Ministry of Education)

Main Aims of Project

In pursuance of Government's declared policy of diversifying the curriculum:

- (i) To introduce Social Studies as an integrated discipline into the secondary school curriculum;
- (ii) To develop an appreciation of the value of Social Studies for children in the first three years of secondary school in terms of concepts, skills and attitudes to be developed;
- (iii) To help teachers to examine and understand the value of Social Studies as a means of enabling the pupils to integrate their own experiences in a meaningful way;
- (iv) To prepare and produce material suitable for use in the teaching of Social Studies.

Description

The project started out with visits to secondary schools for discussion with principals and their staffs about the Social Studies and also for observation of the teaching of Social Science subjects. This was followed by a preliminary survey of the curriculum by questionnaires which were completed by 75% of the schools to which

they were sent. The answers gave an analysis of the content of Social Science subjects taught in the schools; the attitude of teachers towards the teaching of these subjects and the pupil reaction to the subjects.

Subsequently, at a seminar attended by practising teachers and Teachers' College students from different parts of the country, experts from CEDO (UK), EDC (USA) and ASSP (Kenya) as well as from the University of Sierra Leone presented papers on and discussed the meaning, philosophy and basic concepts of the Social Studies. Teachers presented their views on the subject, discussed and demonstrated methodology and considered the place of Social Studies in the Secondary Curriculum.

Arising out of the feedback received from the seminar participants, it was decided to try out a course of study entitled: "Man in his Environment". Units and support material on the topic: "Man Himself" were prepared by teachers at a workshop and it was planned to produce further units and accompanying material on the topics: "Man's Abode" and "Man in Society" later in the programme. The units already produced are being tried out in first year classes in eleven secondary schools by teachers specially briefed for the experiment.

Date of Commencement - December, 1972

Expected Date of Completion - 1977

Source of Finance

IDA Education Project for Sierra Leone, Government of Sierra Leone through the Ministry of Education.

21. Title of Project

CORE COURSE INTEGRATED SCIENCE

Institution

Curriculum Revision Unit, Institute of Education, University of Sierra Leone.

Names of Persons and Designations

D.R. Hill, Science Education Adviser
Dr. V.O.I. Johnson, Curriculum Worker
S.T.P. Bundu, Curriculum Worker
A.C.O'Brien, Curriculum Worker

Main Aims of Project

The revision of junior-secondary Science Curriculum in the light of manpower survey projections and a plan for the educational system.

Description

A survey of science education practice was undertaken in 1971. The findings of that survey and Ministry of Education policy statements were used as the basis for recommendations made by the Curriculum Sub-Committee for Science Education to the Institute of Education as a result of which the Development Programme for Core Course Integrated Science was undertaken in December 1971. Core Course Integrated Science is a low-cost science course intended for the 11-14 age group. The course is potentially a terminal, formal science course but also offers a sound basis for those students who will continue with formal technical, commercial or academic education. Great stress is placed upon the development of trials tested materials which provide abundant support for the teachers and which make minimal demands on imported materials and equipment. The course is potentially teachable in a general purpose classroom.

The CCIS Development Programme is "teacher based". A team of about 40 Sierra Leonean science teachers/lecturers have undertaken the writing of all course materials during a series of eight residential writing workshops, being assisted by local professional and academic consultants and visiting science educators from the U.K. and Ghana. Trials teaching has been undertaken in 15 different schools spread nationwide.

Date of Commencement - January, 1971

Expected Date of Completion - 1975

Source of Finance

Institute of Education funded by the Ministry of Education, British Council, Overseas Development Ministry (UK), CEDO (UK).

Method and Expected Date of Publication

The method by which curriculum materials will be published as low-cost texts is presently the subject of negotiation. The expected publication date is late 1976.

22. Title of Project

CURRICULUM REVISION AT SECONDARY LEVEL; ENGLISH IN THE SECONDARY LEVEL CURRICULUM

Institution

Institute of Education, University of Sierra Leone.

Name of Person and Designation

H.L.B. Moody, Curriculum Adviser in English, seconded from the British Council

Main Aim of Project

To improve the teaching and learning of English in secondary level institutions in Sierra Leone.

Description

This is overtly a practical rather than a research project, intended to improve the quality of education in secondary institutions, especially as governed by the teaching and learning of English as the official national language. Nevertheless it is inevitably based on a number of research investigations: a) the difficulties of learning English to an acceptable standard in secondary level institutions in Sierra Leone; b) standards of attainment reached at various levels of secondary education; c) opinions and attitudes of teachers and learners towards English.

It also involves a number of considerations which are speculative and experimental: d) the correct place of English in relation to the rest of the secondary level curriculum; e) the planning of a properly balanced and integrated curriculum in English; f) the development of teaching and learning methods to maximize the product of (e); g) the relationship possible between methods advocated for the teaching of English as a second language and methods of learning associated with a modern curriculum based on 'intelligent' rather than on 'mechanical' styles of learning.

Date of Commencement - January, 1973

Date of Completion - December, 1974

Source of Finance

IDA and ODM (via the British Council).

Method of Publication

Papers, syllabus, instructional material, for both teachers and pupils.

23. Title of Project

AN INVESTIGATION TO DETERMINE GROUP ATTITUDES TOWARD CHILD-CENTRED LEARNING, ACTIVITY-ORIENTED PROGRAMMES AND IMPROVISATION AND UTILISATION OF LOCAL MATERIALS FOR INSTRUCTIONAL PURPOSES

H - Curriculum

Institution

Science Curriculum Development Centre,
Njala University College, University of
Sierra Leone.

Name of Person and Designation

Dr. M.J.A. Cole, Director

Main Aims of Project

(a) to determine attitudes of groups such as parents, inexperienced and experienced teachers toward certain aspects of curriculum development
(b) to develop attitude instruments to be used in in-service and other programmes related to Science Education.

Description

Questionnaires were submitted to different groups in different parts of the country. Some of the groups already investigated are samples of primary and secondary teachers, lecturers and students at the Teacher Training Colleges and foreign volunteers in the Sierra Leone Training Service.

Date of Commencement - September, 1971

Date of Completion - September, 1974

Source of Finance

Njala University College, University of
Sierra Leone.

Title of Project

THE PREPARATION OF TEACHERS OF
ENGLISH AS A SECOND LANGUAGE
FOR SECONDARY SCHOOLS AND
TEACHER TRAINING COLLEGES IN
GHANA

Institution

Department of Education, University
College, Cardiff, United Kingdom.

See G 12

24. Title of Project

CURRICULUM ANALYSIS PROJECT

Institution

Centre for Educational Technology,
University of Sussex, Brighton,
United Kingdom.

Name of Person and Designation

Dr. M.R. Eraut, Project Leader

Main Aim of Project

To develop a systematic method for the analysis of curriculum materials together with an associated teaching strategy for the introduction of the scheme in workshop situations.

Description

The aim of the project is to develop techniques which can be used by practising teachers, advisers and members of curriculum development teams to analyse and review curricula. Initially the project will develop an instrument for the analysis of curriculum materials (curriculum packages, textbooks) which have a significant influence on the curriculum. A basic analysis scheme for general use with both primary school and secondary school materials will be supplemented with commentaries for various aspects of the curriculum (Reading, First Language, Second Language, Science etc.). Tentative work is also being undertaken on the development of a complementary scheme for the analysis of the curriculum in action.

After testing and revision the instruments will be compiled into a manual which will give general guidance for their use and include several analyses of sample curricula. Some training will be needed for intending analysts; but the completed analyses will be in a form that can be understood and used by classroom teachers who have had no special training.

It is hoped that the materials developed by this project will be suitable for use in different educational systems and that they will help to create a common basis of concepts and terminology which can be adopted in several countries. (For this reason, trial versions of the materials produced will be first tested in Germany and the United Kingdom, and it is intended that revised editions will be made available in other European languages).

Date of Commencement - September, 1972

Date of Completion - August, 1974

Source of Finance

Stiftung Volkswagenwerk

Method and Date of Publication

As a Handbook, 1974

Title of Project

SOCIAL STUDIES EDUCATION

Institution

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

See G 13
