## TEACHERS GUIDE

for the

# REVISED 9-YEAR BASIC EDUCATION CURRICULUM (BEC)

## BASIC SCIENCE AND TECHNOLOGY



Nigerian Educational Research and Development Council (NERDC)

Supported by:



Millennium Development Goals (MDGs)

### Nigerian Educational Research and Development Council

Headquarters: Lokoja - Kaduna Road, Sheda, PMB 91, Abuja, Nigeria.

Phone:

(09) 8822202, 8822204; Fax: (09) 8821047

E-mail:

nerdcabuja@yahoo.com,

nerdcinfo@yahoo.com

Website: www.nerdcnigeria.org

#### **Zonal Offices**

#### South-East

Old SUBEB Building, Waterworks Road, Abakaliki, Ebonyi State.

#### South-South

2nd Floor, Federal Secretariat Building, Calabar, Cross-River State.

#### North-East

Yobe State Government Secretariat, Opposite Government Lodge, Bukar Ibrahim, Phase 1, Damaturu, Yobe State.

#### North-West

GP 109, State Road, Opposite Kano State High Court, Kano, Kano State.

#### South-West

3 Jibowu Street, Yaba, Lagos.

#### North-Central

3rd Floor, Rm 313-315, Federal Secretariat Complex, Minna, Niger State.

#### **PREFACE**

The 9-Year Basic Education Curriculum (BEC) was developed by the Nigerian Educational Research and Development Council (NERDC) in 2006, as directed by the National Council on Education (NCE) for the effective implementation of the Universal Basic Education Programme (UBE) in Nigeria. The major aim is to ensure that learners having successfully completed the 6 years of Primary Education and 3 years of Junior Secondary Education should have:

- acquired basic numeracy, literacy and life-long skills;
- acquired the basic skills in science, technology and IT;
- acquired the basic rudiments for creative thinking;
- developed the foundation for technical, vocational and entrepreneurship culture;
- imbibed high moral values and positive ethical standards.

The implementation of the 9-Year BEC commenced nation-wide, in September, 2008 with Primary 1 and JSS 1 classes respectively whilst the old curriculum was being systematically phased out in subsequent years.

In the course of the implementation of BEC, feedback suggests that the curriculum is overloaded in terms of the number of subjects. There is also the issue of incorporating emergent issues. Subsequently, the Presidential Summit on the Restoration of Education in Nigeria held in October, 2010, identified amongst others the issue of overload in the 9-Year BEC. Consequently, NERDC was directed to revise the 9-Year Basic Education Curriculum in line with the Presidential Task Team Report on Education, and also taking into cognizance international best practices and global competitiveness, without compromising the quality of the school curriculum.

Thus, the 9-Year BEC have been revised from twenty (20) subjects to a maximum of ten (10) subjects.

Project Director:

Prof. Godswill Obioma

Executive Secretary, NERDC

Sheda Abuja

Facilitators:

1. Prof. Ismail Junaidu

NERDC, Sheda Abuja

2. Dr. E. O Adeniyi

NERDC, Sheda, Abuja

**Project Manager:** 

Dr. Grace Ajagun

NERDC, Sheda Abuja

Writing Team (Basic Science)

1. Prof. B. G Nworgu

Dept of Science Education, UNN, Nsukka

Team Leader

2. Prof. Z. C. Njoku 3. Mrs. Faluyi

Dept of Science Education, UNN, Nsukka Federal Ministry of Education, Abuja

Member Member

4. Egbujuo J. Chima

NERDC, Sheda Abuja

Member

Writing Team (Basic Technology)

Dr. A. S. Owodunni

- FUT, Minna

Team Leader

Dr. T.C. Ogbuanya

- Dept of Vocational Education, UNN

Member

Nsukka

Dr. G.N. Nneji

- Fed. College of Education (Tech), Akoka, Lagos

Member

Mr. Maikano Onesimus

Govt. Sec. School, Gwagwalada, Abuja

Member

Writing Team (Physical and Health Education)

Mr. Emenike Ndukwe

- Sheraton Fitness, Lagos Sheraton Hotel

Team Leader

Prof. (Mrs.) Sherifat Suleiman

- Dept of Physical & Health Education,

Member

A.B.U. Zaria

Mr. Botar Mkav Emmanuel

- FCT/UBEB/LGEA Kwali, Abuja

Member

Writing Team (Information Technology)

A. O. Thomas

- Federal Inspectorate Service, Fed. Min. of Education

Team Leader

Labaran Rogers Iben

- Federal College of Education, Zaria Ogbara R. O -- Air Force Sec. School, NAF Base, Ikeja

Member Member

Instructional Resource Expert (Basic Science and Technology Team)

Dr. E. E. Nwabueze

- Tansia University, Oba. Anambra State

Member

**Evaluation Expert (Basic Science and Technology Team)** 

B. C. Madu (Ph.D)

- Dept of Science Education, UNN, Nsukka

Member