

LIFE AND EARTH SCIENCES



Basic Education

7th
grade

Teacher's Guide



National Center for Educational Research and Development



National
Textbook
Commission

New Curricula

Republic of Lebanon

Ministry of Education, and Higher Education

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Teacher's Guide

Basic Education

Grade Seven



National
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New Curricula

Center for Educational Research and Development

General Coordinator
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The translation into English of this book was reviewed
and corrected by faculty members at the American
University of Beirut.

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Teacher's Guide

Basic Education

Grade Seven

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Together We Build Through Education!

The Center for Educational Research and Development (CERD) has embarked on an extensive workshop for assessing and developing the educational framework and curricula which have been placed into effect more than three years ago. With full realization of the fact that the educational cycle must continue normally through its components, and until the development process attains its aspired objectives, we are placing in the hands of students, teachers and directors of public schools, this corrected version of textbooks issued by CERD as part of the National Textbook Series.

This version is an interim stage incorporating the corrected typographical and linguistic errors discovered by CERD specialists as well as teachers and students through their daily dealings with the books. The process of assessment and development of the framework and curricula will take into consideration all the comments that have been made, or will be made, in this regard.

It is expected that once the curricula are developed and aligned with the general and specific objectives set for them, the textbooks will be realigned with the new curricular and framework requirements, including tying the content of a course to the number of teaching hours set for it during the school year, taking into consideration vertical alignment within the same course as well as the horizontal alignment with the rest of the courses.

I take this opportunity to invite all school administrators, teachers and students and all officials concerned in public and private schools alike, to promptly send their comments on these curricula and books as their contribution to enrichment of this momentous national process.

This workshop, which was launched under the kind sponsorship of His Excellency the Minister of Education and Higher Education in implementation of Decree No. 10227 embodying the educational curricula and their objectives, fits in with CERD's proclaimed new motto "Together We Build Through Education".

It is our earnest desire to see this national, all-inclusive workshop attracting the greatest amount of interest and participation to define the safest and soundest educational options that directly affect our children, as we vow to continually modernize education and develop its ways and means to keep abreast of modern developments and progress in science and technology.

Dr. Leila MALEEHA
President CERD

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PREFACE

This pedagogical guide complements the student's textbook of the seventh year of the Basic Education cycle , and focuses on the following three themes:

- **Nutrition**
- **Reproduction**
- **Interdependence of living things**

The organization of the guide permits the teacher to prepare, perform and adjust his teaching with greater effectiveness. Each part of the student's book corresponds to:

- **the divisions of the part.**
- **an indication to the general theme.**
- **the detailed content of the curriculum with the required skills and the proposed activities.**
- **the answers to the activities questions of the student's textbook.**
- **the answers to the exercises of the student's textbook.**

The skills "tips" complete the pedagogical guide. They urge the student to improve his comprehension of the course, enforcing his autonomy and facilitating the acquisition of the skills required in the curriculum.

The guide constitutes a natural extension to the student's textbook .It strictly associates facts, analysis and precise explanation , to the required pedagogical instructions, evaluation and skills.

In writing the students manual and the pedagogical guide , the authors wanted to give this discipline the tools that guarantee its scientific dimension and experimental specificities, as they are defined in the introduction and in the objectives of the curriculum.

We strongly hope that this guide will provide the teacher with the necessary elements for the preparation of the course .

The authors