



Republic of the Philippines
Department of Education
DepEd Complex, Meralco Avenue, Pasig City

MATATAG CURRICULUM

SCIENCE

GRADES 4 and 7

SCIENCE SHAPING PAPER

I. Introduction

The Science Shaping Paper is developed to provide the narrative for the development of the recalibrated Science Curriculum. It outlines the goals, theoretical and philosophical foundations, and rationale that shape the Science Curriculum. It presents the big ideas and cross-cutting concepts in Science to emphasize the development of durable understanding among learners as well as skills applicable in various contexts.

The Science Shaping Paper and the Science curriculum are based on the General Shaping Paper, taking into consideration the findings of the curriculum review conducted in 2019-2020. Furthermore, the Science curriculum draws on the goals of the 2016 Science K to 12 curriculum. Its new features include: (a) expanding technological literacy to technology and engineering literacy to enable learners to develop their ability to connect science content to real-world technological and engineering applications; (b) introduction of key stage and grade level standards to articulate expectations of what learners should be capable of doing at each key stage and grade level; and (c) developmental sequence of content in consideration of the prior learning of students and the cognitive and language demands of learning new science ideas. Specifically, in sequencing the science content, three modes of thinking have been considered, starting from the simplest level when a person reacts to the physical environment; is able to internalize actions through words and images, and the most complex level; and is already able to think using a symbol system such as written language and number systems.

The recalibration of the Science curriculum draws from and supports the DepEd MATATAG agenda, which sets the new direction in resolving basic education challenges through the four critical components:

- **M**aking the curriculum relevant to produce competent and job-ready, active, and responsible citizens;
- **T**aking steps to accelerate delivery of basic education facilities and services;
- **T**aking good care of learners by promoting learner well-being, inclusive education, and a positive learning environment; and
- **G**iving support to teachers to teach better.

It comes at a time when rapid changes and disruptions are happening. According to Marope, Griffin, and Gallagher (2017), in the face of such persistent and rapid changes, education, through its curricula, should serve as lifelong learning systems, demonstrating constant self-renewal and innovation.

The succeeding sections are organized as follows:

- The Shape of the Grades 3 to 10 Science Curriculum
- Development of the Curriculum
 - Curriculum Goals, Theoretical and Philosophical Bases, Curriculum Framework, Key Stage Standards, Grade Level Standards
- Elements Contributing to the Curriculum

Grade 7 Learning Guide In Science

RM Cervero



Grade 7 Learning Guide In Science:

Resources in Education ,1992 **List of Outstanding Teaching and Learning Materials** Association for Supervision and Curriculum Development,1972 **Research in Education** ,1971 **North Carolina Education** ,1943

ERIC Educational Documents Index, 1966-69: Major descriptors ,1970 *Tennessee Teacher* ,1948 **Journal of the Florida Education Association** Florida Education Association,1943 *Georgia Education Journal* ,1943 ERIC Educational Documents Index, 1966-1969: Minor descriptors. Author index CCM Information Corporation,1970 **The Journal of the National Education Association** National Education Association of the United States,1927 *Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant* , **ERIC Educational Documents Index** Educational Resources Information Center (U.S.),1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office,1974 **Research in Education** ,1972 *Catalog of Copyright Entries, Third Series* Library of Congress. Copyright Office,1966 The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim the name of the copyright claimant as given in the application for registration the copyright date the copyright registration number etc North Dakota Teacher ,1943 **Normal Instructor and Teachers World** ,1930 Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1974 *The Publishers' Trade List Annual* ,1979

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