Turkish Early Childhood Education Curriculum from the Perspective of STEM Education: A Document Analysis

Aysun ATA AKTÜRK
Early Childhood Education, Kastamonu University, Kastamonu-TURKEY

Hasibe Özlen DEMİRÇAN
Early Childhood Education, Middle East Technical University, Ankara-TURKEY

Ezgi ŞENYURT
Early Childhood Education, Middle East Technical University, Ankara-TURKEY

Mustafa ÇETİN
Early Childhood Education, Middle East Technical University, Ankara-TURKEY

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Abstract

The current study aimed to examine Turkish early childhood education curriculum prepared for 36–72 month children relative to science, technology, engineering, and mathematics (STEM) education. To that end, 240 developmental features, 65 objectives, and 230 indicators under developmental fields in the curriculum and 40 sample activities in a teacher activity book were analyzed by adopting content analysis. The data were analyzed in the light of “A Framework for K–12 Science Education: Practices, Crosscutting Concepts, and Core Ideas” developed by the Committee on a Conceptual Framework for New K–12 Science Education Standards within the National Research Council. Analyses revealed that the curriculum and teacher activity book included core ideas and concepts related to STEM education and it had most of the characteristics of STEM education. Finding out the existence of STEM education related aspects of the early childhood education curriculum inspires conducting further studies that will help early childhood educators’, academicians’, and policy makers’ focus on integrating and implementing STEM education practices not only in Turkey but also in countries adopting similar early childhood education curriculums.
Introduction

This article reports a study of ways to examine the implementation of a science, technology, engineering and mathematics curriculum in the early years. First, the Position Statement of Early Childhood Education (National Science Teachers Association) and the current research in this area were reviewed. This document outlines early learning as young children’s physical, intellectual, emotional and social development.

Keywords: STEM, early childhood education, Pre-Kindergarten education, Classroom Observation Protocol, data collection tools, development and validation.
work and family schedules. To learn more about online schooling, read below. The goal of an early childhood education certificate program is to provide an organized curriculum in order to prepare students to work with young children. In reputable online programs, you should be able to find: Deadlines and accountability markers. These are in place to help students stay up to pace. Rack. Early Childhood Educators’ Perceptions of Inclusion for Children with Autism Spectrum Disorder. Authors, Sophia R. D’Agostino. Barriers to Implementing a Healthy Habits Curriculum in Early Childhood Education: Perspectives from Childcare Providers and Teachers. Authors (first, second and last of 4). Elizabeth Villegas.