



Exploring the Integration of Engineering Design Practices in Tenth-Grade Chemistry Activities

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Chemistry textbooks are the most popular teaching material in schools. They can contribute significantly to the attainment of scientific educational goals. Internationally, educational reforms in science subjects are adopting newer practices such as Engineering Design Processes (EDP) for addressing real-world requirements. This study, conducted in Saudi Arabia, employed a qualitative and quantitative content analysis method to evaluate the level of the EDP incorporated in the tenth grade chemistry textbook and accompanying student's experiments' guidebook. The results found the inclusive mean for EDP was 1.05, which indicated incorporation was found to be at level one. This inclusion EDP in chemistry textbooks has been rated as novice or deficient, which indicates that it does not fulfill the majority of the requirements for inclusion as suggested by NGSS.

Keywords: chemistry textbook, engineering designed practices, new generation science standards, textbooks analysis, science education activities

INTRODUCTION

In the early 19th century, technology and engineering education attracted educators from around the world. For example, the National Academy of Engineering carried out a project called "Engineering in K-12 Education," that was concerned with the connection between curricular materials related to science, technology, engineering, and mathematics education (STEM) subjects (Pfeper and Mentzer, 2013). Since then, engineering education has been integrated with k-12 science curricula in a number of countries (Purzer et al., 2015; Purzer and Quintana-Cifuentes, 2019). For example, the National Science Education Standards (NSES), [National Research Council (NRC), 1996; National Academy of Engineering and National Research Council (NAE and NRC), 2009, p. 4; NGSS, Lead States, 2013; Brand, 2020], adopted engineering design processes and recommended that it be included in science curricula. This integration of engineering design processes in K-12 science education led to reforms in pedagogical, epistemological, and methodological courses and programs for teacher preparation (Bens, 2019; Purzer and Quintana-Cifuentes, 2019). In addition, the NGSS raised engineering design to the same level as scientific inquiry, which was initiated by NSES, by pledging to integrate engineering design into all levels of science education.

To enhance students' interest in scientific and engineering process, as well as to improve the teaching of science, the NRC further developed its NSES to establish the New Generation Scientific Standard (NGSS). The NGSS were designed to guarantee science education that is grounded in real-world experience (NGSS, Lead States, 2013). Students were expected to be able

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