

ABSTRAK

N. Dede Umusalamah : Pengembangan Pembelajaran STREAM (*Science, Technology, Religion, Engineering, Arts And Mathematics*) Berbasis Proyek Nutrasetikal Untuk Meningkatkan Literasi Halal dan Kesadaran Gizi Peserta Didik

Literasi halal dan kesadaran gizi peserta didik MTs yang rendah menjadi tantangan dalam pembelajaran IPA yang integratif. Penelitian ini bertujuan untuk meningkatkan literasi halal dan kesadaran gizi peserta didik Madrasah Tsanawiyah (MTs) melalui pengembangan pembelajaran STREAM (*science, technology, religion, engineering, arts, mathematics*) berbasis proyek nutrasetikal. Model pembelajaran ini dirancang dengan proyek pembuatan *smoothies* kefir buah lokal yang mengintegrasikan *science, technology, dan religion* dalam pembelajaran kontekstual. Penelitian ini menggunakan metode *Research and Development* (R&D) dengan model *Three D* (*define, design, development*). Data dikumpulkan melalui *pretest, posttest*, angket, dan observasi terhadap siswa kelas VIII MTs Negeri 2 Subang. Hasil penelitian menunjukkan bahwa bahan ajar yang dikembangkan memiliki validitas tinggi dengan skor rata-rata 85%. Literasi halal peserta didik meningkat, dengan rata-rata skor *pretest* 59 yang naik menjadi 83 pada *posttest*, menghasilkan nilai N-Gain sebesar 0,62 (kategori sedang). Kesadaran gizi peserta didik juga meningkat signifikan, dengan hasil angket menunjukkan skor rata-rata 88% (kategori sangat baik). Respon peserta didik terhadap pembelajaran sangat positif, dengan skor kepuasan 91%. Kesimpulannya, pembelajaran STREAM berbasis proyek nutrasetikal dapat meningkatkan literasi halal dan kesadaran gizi peserta didik. Pembelajaran ini dapat direkomendasikan untuk diterapkan pada topik lain yang memadukan *religion, science, dan keterampilan* abad ke-21.

Kata Kunci : Kesadaran gizi, Literasi halal, Nutrasetikal, Pembelajaran berbasis proyek.

ABSTRACT

N. Dede Umusalamah: Development of STREAM Learning (Science, Technology, Religion, Engineering, Arts and Mathematics) Based on Nutraceutical Project
To Improve Halal Literacy and Nutritional Awareness of Students

Low halal literacy and nutritional awareness of MTs students are challenges in integrative science learning. This study aims to improve halal literacy and nutritional awareness of MTs students through the development of STREAM learning (science, technology, religion, engineering, arts, mathematics) based on nutraceutical projects. This learning model is designed with a local fruit kefir smoothies project that integrates science, technology, and religion in contextual learning. This study uses the Research and Development (R&D) method with the Three D model (define, design, development). Data were collected through pretest, posttest, questionnaire, and observation of class VIII students of MTs Negeri 2 Subang. The results of the study showed that the open materials developed had high validity with an average score of 85%. Students' halal literacy increased, with an average pretest score of 59 which increased to 83 in the posttest, resulting in an N-Gain value of 0.62 (moderate category). Students' nutritional awareness also increased significantly, with the questionnaire results showing an average score of 88% (very good category). Students' responses to learning were very positive, with a satisfaction score of 91%. In conclusion, STREAM learning based on nutraceutical projects can improve students' halal literacy and nutritional awareness. This learning can be recommended for application to other topics that combine religion, science, and 21st century skills.

Keywords: Nutrition awareness, Halal literacy, Nutraceuticals, Project-based learning.