

## THE APPLICATION OF STAD- COOPERATIVE LEARNING IN DEVELOPING INTEGRATED SCIENCE ON STUDENTS WORKSHEET

Titik Rahayu<sup>1</sup>, Syafrimen Syafril<sup>2</sup>, Widya Wati<sup>3</sup>, Yuberti<sup>4</sup>

<sup>1</sup> Pendidikan Sains, Fakultas Pendidikan, Universiti Kebangsaan Malaysia, Malaysia

<sup>2, 3, 4</sup> Fakultas Tarbiyah dan Keguruan, Universitas Islam Negeri Raden Intan Lampung, Indonesia

e-mail: <sup>1</sup>p91583@siswa.ukm.edu.my; <sup>2</sup>syafrimen@radenintan.ac.id

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**Abstract:** The application of Integrated teaching materials in teaching and learning science is very important, to support students acquire comprehensive knowledge and skills and make the learning process more memorable. Teachers must be good at choosing methods and packaging the teaching materials well to attract students' learning interests. This study aims to examine the analysis of the development of Integrated Science on Student Worksheet using the steps of cooperative methods of Student Teams Achievement Divisions type. The study was conducted using a qualitative approach (Multi-case single-site case study design). The data were collected through analytical documents and analyzed thematically with NVIVO 10 software. The results showed that the steps to develop integrated science on Student Worksheet using cooperative method of Student Teams Achievement Divisions are: (1) In Student Worksheet there must be motivation and apperception; (2) team building; (3) presentations from teachers; (4) learning activities in teams must be heterogeneous; (5) implementation of individual quizzes; (6) awarding. The results of this study are discussed with various results of previous research.

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**Keywords:** Integrated Science, type STAD - cooperative learning, students worksheet.

### INTRODUCTION

Science is not only stressed on the mastery of knowledge, i.e., factual, concept, or principles solely, but also is a process of scientific discovery, science learning is related of how to find out about nature systematically (Kurikulum, 2006). According to (Trianto, 2011) science is built for the scientific product, scientific process, and scientific attitude. Due to achieve science learning purpose is needed various learning material and supporting facility, one of it is the used of Students Worksheet. Students Worksheets is a printed learning material that prepared and used by the teachers to assist students in achieving knowledge, skills, and values. Science learning can involve students and learning process can be active and efficient (Lee, 2014; Sasmaz-Oren, 2012).

Some research gained that in several countries Students Worksheet becomes the booster of the curriculum (Martin, 2012). However, integrated science that discussed in this research is the integration of material by science terminology which exists on Al-Qur'an. The needed for the facility of learning methods also proper learning tools is necessary to deliver integrated science (Rahayu.P, 2012). According (Rimma A. Kutbiddinova, 2016) with methods will connect the interaction between teachers and students, e.g., in cooperative learning methods will occur discussion group, debate, simulation game, business, situation analysis case, project methods, social-psychologist training, moderation and computer simulation. STAD-cooperative type assumed can increase students learning achievement, social relation, grow the

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