

ABSTRAK

Caroline G.A Santus. 2016. Penerapan Teori Sosiokultural Dalam Pembelajaran Hukum Archimedes Dengan Metode Ekperimen Siswa Kelas XI MIPA 1 SMA NEGERI 1 NGAGLIK. Program Studi Pendidikan Fisika, Jurusan Pendidikan Matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma.

Penelitian ini bertujuan untuk (1) Bagaimana profil *Zone of Proximal Development* siswa tentang Hukum Archimedes? (2) Bagaimana penerapan konsep *scaffolding* dalam pembelajaran Hukum Archimedes? (3) Bagaimana dampak dari penerapan konsep *scaffolding* pada pembelajaran Hukum Archimedes setelah pembelajaran dirancang berdasarkan *Zone of Proximal Development*?

Penelitian ini dilaksanakan pada bulan Oktober – November 2019. Dengan subyek penelitian adalah siswa kelas XI MIPA 1 di SMA NEGERI 1 NGAGLIK. Pengumpulan data menggunakan *pretest* dan *posttest* serta wawancara awal dan akhir pembelajaran. Hasil dari *pretest* dan wawancara awal pembelajaran dapat membantu peneliti untuk menentukan profil *Zone of Proximal Development* siswa.

Teori Sosiokultural pada penelitian ini diterapkan sesuai dengan *scaffolding* atau bantuan yang diberikan pada siswa berdasarkan profil *Zone of Proximal Development* siswa. Hasil penelitian menunjukkan bahwa Teori Sosikultural yang diterapkan pada pembelajaran Hukum Archimedes berdasarkan *scaffolding* yang diberikan memberikan dampak terhadap peningkatan pengetahuan siswa.

Kata Kunci: Penerapan, Teori Sosiokultural, *Zone of Proximal Development*, *Scaffolding*.



ABSTRACT

Caroline G.A Santus. 2016. *The Implementation of Sociocultural Theory in the Learning of Law of Archimedes with the Experimental Method Grade XI Science student at SMAN 1 Ngaglik. Physics Education Study Program, Department of Mathematics and Natural Sciences, Faculty of Teaching and Education, Sanata Dharma University.*

This research aims to know; (1) How is the students' Zone of Proximal Development profil about Law of Archimedes? (2) How to apply scaffolding concept in Law of Archimedes? (3) How is the impact of the implementation of scaffolding concept on Law of Archimedes after the learning activity is designed based on Zone of Proximal Development?

The study was conducted in October – November 2019. The subjects of research are Grade XI Science student at SMAN 1 Ngaglik. Pretest and posttest were implemented in the beginning and the end of the learning activities to collect the data. The results of pretests and preliminary interview before the learning activity could help the researcher to determine the students' Zone of Proximal Development profil.

The sociocultural theory in this research was applied according to the scaffolding or assistance given to students based on the students' Zone of Proximal Development profil. The results showed that the socializing theory applied to the learning of Law of Archimedes based on the scaffolding provided impacted the students' knowledge.

Keywords: *Implementation, Sociocultural theory, Zone of Proximal Development, Scaffolding.*

