

## ABSTRAK

**Ricardo Jonatan Tumanggor. NIM. 4171141038 (2021). Pengembangan Lembar Kerja Peserta Didik (LKPD) Biologi Dengan Pendekatan Saintifik Berbasis *Articulate Storyline* Pada Materi Sistem Ekskresi Di Kelas Xi Mia Sma Swasta Taman Siswa Medan T.P 2020/2021.**

Penelitian ini dilatar belakangi oleh minimnya penggunaan ataupun pemanfaatan berbagai media pembelajaran berbasis teknologi yang dapat mempermudah pembelajaran khususnya pada Mata Pelajaran Biologi. Penelitian ini bertujuan untuk mengembangkan media Pembelajaran berupa Lembar Kerja Peserta Didik (LKPD) Biologi Dengan Pendekatan Saintifik Berbasis *Articulate Storyline* pada Materi Sistem Ekskresi di Kelas XI Mia SMA Swasta Taman Siswa Medan, Menghasilkan media Lembar Kerja Peserta Didik (LKPD) yang layak dari ahli media, ahli materi, dan ahli pembelajaran, mengetahui kelayakan Media Lembar Kerja Peserta Didik (LKPD) Biologi berdasarkan angket respon peserta didik, mengetahui efektifitas Lembar Kerja Peserta didik (LKPD) Biologi dengan Pendekatan saintifik berbasis *Articulate Storyline* berdasarkan peningkatan nilai siswa pada materi Sistem Ekskresi dikelas XI Mia SMA Swasta taman siswa Medan. Penelitian pengembangan dilakukan dengan desain yang diadaptasi dari model pengembangan ADDIE yang terdiri dari: Analisis (analyze), Perencanaan (desain), pengembangan (development), implementasi (implementation), dan Evaluasi (evaluation). Analisis data yang digunakan untuk mengetahui layak media Lembar Kerja Peserta Didik (LKPD) Biologi adalah deskriptif kualitatif. Hasil penelitian menunjukkan (1) Lembar Kerja Peserta didik (LKPD) Biologi dengan pendekatan saintifik berbasis *Articulate storyline* pada materi sistem ekskresi dikembangkan melalui 5 tahapan yaitu *Analysis, design, development, implementation dan evaluation*. (2). Media Lembar kerja peserta didik (LKPD) Biologi dengan pendekatan saintifik berbasis *Articulate storyline* ini Layak digunakan berdasarkan penilaian: a) ahli Media diperoleh 91,66 dengan kategori “sangat layak”, b) ahli Materi diperoleh 95,83 dengan kategori “Sangat Layak” dan c) ahli pembelajaran diperoleh 95 dengan kategori “ Sangat Layak”. (3). Respon siswa terhadap media Lembar Kerja *Articulate storyline* yaitu: (a). Uji Perorangan diperoleh nilai rata-rata 93,9 dengan kategori Sangat Layak. (b). Uji kelompok kecil diperoleh nilai rata-rat 99,6 dengan kategori Sangat Layak.

**Kata kunci:** *Lembar Kerja Peserta Didik (LKPD), Articulate storyline, Sistem Ekskresi*



## ABSTRACT

**Ricardo Jonatan Tumanggor. NIM. 4171141038 (2021). Development of Biology Student Worksheets with a Scientific Approach Based on Articulate Storyline on Excretion System Material in the XI Mia Class at Taman Siswa Private High School Medan T.P 2020/2021.**

This research is motivated by the lack of use or utilization of various technology-based learning media that can facilitate learning, especially in Biology Subjects. This study aims to develop learning media in the form of Biology Student Worksheets with a Scientific Approach Based on Articulate Storylines on Excretion System Materials in Class XI Mia at Taman Siswa Private High School Medan, Produce appropriate Student Worksheets media from media experts, material experts, and learning experts, knowing the feasibility of Biology Student Worksheet Media based on student response questionnaires, knowing the effectiveness of Biology Student Worksheet with a scientific approach based on Articulate Storyline based on increasing student scores on the Excretion System material in class XI Mia Private High School Medan students park. Development research is carried out with a design adapted from the ADDIE development model which consists of: Analysis (analyze), Planning (design), development (development), implementation (implementation), and Evaluation (evaluation). The data analysis used to determine the appropriateness of the Biology Student Worksheet media was descriptive qualitative. The results showed (1) Biology Student Worksheet with a scientific approach based on Articulate storyline on the excretory system material was developed through 5 stages, namely Analysis, design, development, implementation and evaluation. (2). Media Student Worksheets Biology with a scientific approach based on Articulate storyline is Appropriate to use based on the assessment: a) Media experts obtained 91.66 with the "very feasible" category, b) Material experts obtained 95.83 with the "Very Eligible" category and c) learning experts obtained 95 with the category "Very Eligible". (3). Student responses to the Worksheet media Articulate storyline, namely: (a). Individual Test obtained an average value of 93.9 in the Very Eligible category. (b). The small group test obtained an average value of 99.6 in the Very Eligible category.

**Keywords:** *Student Worksheet, Articulate storyline, Excretion System*