

Research Article

# The Effectiveness of Using Pixie Doddy in Student Teaching and Learning (PDPC)

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**Abstract:** Children of Generation Alpha have grown up surrounded by cutting-edge technology since they were very young. This generation is less likely to interact with friends since they prefer to 'socialize' through technology. Children who are in early elementary school or who have severe communication issues are particularly affected by this situation and have difficulties communicating. The 'Pixie Doddy' was developed expressly to facilitate communication between teachers and students. Through "Pixie Doddy," kids can practice components of Hoka Hockey Theory's left-right brain balance in addition to mimicking the lip motions of the puppet. Children will be given the chance to create their own puppets using the resources offered through this invention, using their own imagination. From a psychological perspective, this exercise can foster a feeling of "belonging" to the work produced while also using Multiple Intelligence to show the child's other side. Six special education students at SK Kampung Baharu in Kuala Besut, Terengganu, ten students at SK Bukit Puteri in Jertih, Terengganu, one student at SK Pengkalan Kubor (1) in Pengkalan Kubor, Kelantan, and one student at SK Bukit Nikmat in Jerantut, Pahang have already benefited from Pixie Doddy's innovation. According to this study, this innovation can support them in speaking clearly even though some of them have less fluency. Additionally, this innovation can help kids who are shy to speak up by boosting their self-confidence.

**Keywords:** Pixie Doddy; Hoka Hockey Theory; Speaking Proficiency.



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## 1. INTRODUCTION

The basic goal of this innovation can be broken down into three goals. The pupils' cognitive, emotional, and social functioning is improved as the first goal. Pixie Doddy will encourage students to be more outgoing and at ease when interacting with others. Students can develop their creativity by making their own doddy through the creative usage of Pixie Doddy. Additionally, Pixie Doddy contributes to a rise in self-assurance when speaking in public. This Pixie Doddy serves as the students' second mouth, which will improve their communication skills. Communication skills are very important. Specifically, communication is held to share feelings and thoughts for several purposes that

aim to connect with others such as: inspiring, motivating, making orders, entertaining, directing, controlling, informing, educating (Muste, 2016; Keyton, 2011). Finally, Pixie Doddy's invention helps them have a better time mingling.

## **2. IMPORTANCE OF THE PROJECT**

A survey was conducted on students from several primary schools, including SK Kampung Baharu in Kuala Besut, Terengganu, ten students at SK Bukit Puteri in Jertih, Terengganu, one student at SK Pengkalan Kubor (1) in Pengkalan Kubor, Kelantan, and one student at SK Bukit Nikmat in Jerantut, Pahang. The survey found that Level One students face difficulties in effectively speaking Malay. They are facing some kind of problem to say few words of alphabets.

These difficulties became more challenging for teachers when the country was hit by the Covid-19 pandemic in early 2019. Teachers faced problems in providing more effective materials to students during online Teaching and Learning Activities (PdPr). Parents were also affected as they were unable to access suitable reinforcement exercises for their children's proficiency levels due to the Movement Control Order (MCO), which aimed to encourage and motivate their children to continue learning enthusiastically and joyfully at home. Thus, we created Pixie Doddy to help students to overcome their problems to speak Malay.

## **3. UNIQUENESS OF THE PROJECT**

One of the distinctive features of this Pixie Doddy invention is that pupils will design their own puppets using their own imaginations. Additionally, Pixie Doddy includes a video game with a puppet theme. This is also kind of informal learning. Informal learning typically occurs outside of the formal classroom, is not highly structured, is learner-initiated and controlled, and involves a conscious intent to engage in independent actions and interactions (Marsick and Watkins, 1999). The idea of amusing teaching is used in this Pixie Doddy video game to encourage students to read. Through this online game, students can actively communicate and chat with their friends. Digital tools, by a short definition, are any type of software or hardware that can be used for education (Mahiri, 2011). Through this digital tool, they can compete with their friends in a healthy way as well.

The Pixie Doddy invention also includes an electronic book. One of the integrations of technology into the current learning curriculum is the application of online learning or what we often know as electronic learning (Silvi Yulia Sari, Fanny Rahmatina Rahim, Putri Dwi Sundari, Fauzan Aulia, 2022). Students can read using the syllables in the electronic book. Students can read while manipulating the puppets they have decorated based on the e-book. It is also simple for kids to read from this e-book wherever they are. This is due to the fact that they may easily access the book by using a smartphone or tablet.

## **4. IMPACT OF THE PROJECT**

The kids' ability to gain more public confidence is one benefit of adopting Pixie Doddy's ground-breaking products. According to the observations obtained during the innovation materials test session at SK Bukit Puteri, some students lack the confidence to speak in front of the class. However, after using the ground-breaking device that was developed, the student is now able to communicate with Pixie Doddy in a positive and assured manner. The students who have self-confidence will be able to overcome fears or negative thoughts, so they will be easy to communicate, especially in the oral presentation in front of the class (Nadiah, Arina, and Ikhrom, 2019). Additionally, this product can help pupils, particularly those in level 1, develop their speaking and reading skills.

Furthermore, employing this ground-breaking product allows kids to construct words. This is due to the fact that this package also includes e-books and digital games that have simple words and phrases that help improve kids' reading abilities. With the use of this product, students can communicate and socialise with one another better by using Pixie Doddy products as a middle ground for communication.

## 5. COMMERCIALIZATION POTENTIAL & CONCLUSION

Pixie Doddy has successfully expanded its use to several schools including, Kampung Baharu National School, Kuala Besut, Terengganu, Pengkalan Kubor School (1), Pengkalan Kubor, Kelantan, Bukit Nikmat National School, Jerantut, Pahang and Bukit Puteri School, Kg. Listen, Jertih, Terengganu.



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