

THE ROLE OF ROBOT TEACHERS IN ENGLISH TEACHING AND LEARNING IN KINDERGARTEN

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Abstract: *As Robotics technology and artificial intelligence continue to grow exponentially, we will be able to do some incredible thing with the assistance of robots in education. Robot teachers in English play a vital role in both learning and teaching in kindergarten. This article will describe the role of robot teachers in teaching and learning children in kindergarten.*

Key words: *robot teachers, learning, teaching, kindergarten, englishlanguage, benefits of robot teacher*

Introduction: Robotics education has steadily gained major attention as Artificial Intelligence (AI) has entered a phase of rapid growth since the 21st century, generating the technological prerequisites for producing intelligent robots . Students' creative, manipulative, and cognitive skills can be developed via robotics instruction . It contributes positively to students' personal development. Primary and high school kids are the target audience for most modern robotics teaching . But kindergarteners in their senior year can also take robotics classes. Their learning is concentrated on building robots, which lays the groundwork for more learning in later robotics courses.

Children can begin incorporating robotics into their lessons as early as kindergarten since it provides the following advantages:

It improves the capacity for synthesis and analysis from an early age. Observing the movements of a robot encourages the drawing of conclusions and sharpens their analytical skills.

It develops their logical abilities. Robotics is based on the principles of programming, this learning has a direct impact on their logical abilities and their application in other fields.

It encourages problem solving. When a group of children develop an activity related to robotics, they must learn to solve problems together, through collaborative roles.

It improves mathematical performance. The benefits of robotics in children are also perceived in subjects such as mathematics, due to its practical application.

It is a motivational activity. The pupils enjoy analyzing the movements that a robot is able to perform, for them it is a challenge that goes beyond the usual learning that they develop in other subjects. They will be prepared for the future. Knowledge such as programming or applied technology will be basic in the future.

It stimulates creativity. In this type of projects there is no single solution, the student has absolute freedom to develop their individual capacity and creativity. It improves their vocabulary. Through this type of collaborative activities, students improve their vocabulary, both in Spanish and English, and their social skills.

It allows goal setting and goal achievement to become a habit. Robotics is based on objectives that are accomplished in different phases, this process can be adapted to their daily life.

There are various benefits of robotics in education. Affordable teaching alternatives. Teaching shortages have put pressure on remaining educators to serve more students, but robots are easing some of the strain. In addition to one-on-one conversations, robots are capable of leading small groups and assisting kids who need more in-depth attention in the classroom. Relying on robots to fulfill basic roles saves schools from scouring a limited talent pool for more teachers and further stretching their financial budgets.

Stronger personal ability. Education robots have eyes, mouths, and other facial characteristics that people use to read emotions in order to appeal to humans' social nature. In order to choose the proper answer, these robots also include technology that lets them interpret facial expressions and speech. Robots emphasize the development of emotions.

Education in robotics is crucial for developing children's critical thinking, practical skills, and inventiveness. Enhancing children's learning quality and igniting their enthusiasm for learning are important. The use of robotics education in children has not received much attention in the research that is currently available. It's important to pique kids' curiosity about learning. Senior kindergarten pupils will be the research subject for this study. Robotics education is an effective tool to cultivate children's creativity. It can stimulate children's curiosity about the things around them and have a profound impact on their creativity, hands-on ability and communication and collaboration. Robots are entering kindergarten classes, augmenting teaching methods in diverse ways. There are endless opportunities for the

classroom use of robots, yet they have not been used to their full potential. The use of robots in education as a tool has the capacity to make a bold impact in pre-school classrooms, helping to teach reading and spelling and giving an introduction to programming.

Robot teachers can play a valuable role in English teaching and learning in kindergartens by providing additional support and resources to both teachers and students. Some potential benefits of using robot teachers in this context include:

1. Engaging and interactive lessons: Robot teachers can deliver engaging and interactive lessons that capture the attention of young learners. They can use multimedia content, games, and other interactive features to make learning English fun and exciting.

2. Personalized learning: Robot teachers can adapt their teaching style and pace to meet the individual needs of each student. They can provide personalized feedback and support to help students improve their English skills at their own pace.

5. Language practice: Robot teachers can provide opportunities for students to practice their English language skills in a non-judgmental and supportive environment. Students can practice speaking, listening, reading, and writing with the robot teacher, helping them build confidence and fluency in English.

4. Supplemental support: Robot teachers can supplement the work of human teachers by providing additional practice exercises, quizzes, and activities for students to complete. This can help reinforce the lessons taught by human teachers and provide additional opportunities for students to practice and improve their English skills.

In conclusion, robot teachers can enhance the English teaching and learning experience in kindergartens by providing engaging, interactive, and personalized support to students. They can help make learning English more fun and effective for young learners, setting them up for success in their language learning journey.

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