

The use of 3D printing technology in primary school in the light of the research

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Abstract

The growing accessibility of 3D printing technology has led to reduced prices of devices and materials, making it easier for schools to purchase equipment through initiatives like the Future Laboratories program. This development has created an opportunity for a more innovative approach to teaching using 3D printing. Specifically, the application of 3D printing and 3D pens can greatly enhance the learning experience in subjects such as science, mathematics, and technology.

To evaluate the extent to which this technology is utilized in primary schools, a research study was conducted using a diagnostic survey method involving teachers and students. Separate questionnaires were designed for both groups. The participants were also asked about the skills they developed through working with 3D printing and provided suggestions for topics where 3D pens and printers would be beneficial.

The survey findings revealed that in previous years, neither students nor teachers had the opportunity to utilize 3D printing or 3D pens. Currently, the implementation of 3D printing technology in schools remains at a significantly low level, as indicated by the research. The detailed results of the study are presented in the report.

Keywords

3D printing, primary school education