

Impact of 3D learning in schools

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On March 30, VIVED Learning attended the 2015 Iowa STEM Summit. The conference was an opportunity to learn about regional networks, communication strategies, STEM classrooms and much more related to K-12 students and learning. Attendees discussed local success stories such as the First Lego League in the Northwest Iowa region and opportunities for teachers, like externships. Another success story was seen in the North Cedar Community School District with the implementation of 3D learning tools. North Cedar recognized the benefits of 3D learning for students and acquired a 3D system to help them engage students in STEM related curriculum.

Statistics on 3D Learning

A 2010 study conducted by Professor Anne Bamford demonstrated the beneficial impacts of 3D teaching by comparing the effects of 2D and 3D learning on students. The results of the project "Learning in Future Education" show:

- Post-test vs. Pre-test: -2D-52% Improved -3D-86% Improved
- 3D increased pupil attention from 50% to 94%
- Students using 3D remembered more and in greater detail than pupils using 2D

Studies show that 85 percent of children prefer to learn by seeing and doing and with three dimensional technology they are given a tool with access to those visual aids. Aside from improvements in test scores and memory, learning with 3D also had other favorable impacts on students. For instance, 3D can lead to improved classroom interaction and a deeper understanding of the materials being taught.

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