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Experience Bridges: Mathematics and Visuality

In an experience-based society people prefer those kinds of activities which can provide specific experiences – that is why education takes notice of them. Many aspects of gaining experiences are known, and experiences in education are often connected with visual elements.

Mathematics is frequently characterized as a dry and abstract science, but through visuality it can be more enjoyable. In experience-based education there are initiatives to link mathematics and visual arts. In my presentation I would like to highlight some possibilities as to what kind of methods teachers can use to make mathematics more real through visuality. Dialectical mathematics often use figures to prove the existence of a solution to a problem. Teachers can draw illustrations on the board or give constructed models to students, but computers provide a transitional way between 2D and 3D. Moreover to explore some kind of polyhedron's properties “pull-up polihedra” can be used to link a plane net and a spatial body easily. All kinds of visual demonstrations serve a deeper understanding.



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