

## **Scaffolding in mathematics teacher education in online teaching**

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Within educational research, the concept of scaffolding has gained popularity over the past decades. Interest in scaffolding is also associated with blended and distance learning. Scaffolding is generally conceived as an interactional process between a person with educational intentions and a learner, aiming to support this learner's learning process by giving appropriate and temporary help. And questions arise: how can we use teaching aids that should help the student to complete a new mathematical task, helping in those parts of the activity that the student has not yet mastered on their own in the conditions of online teaching? And how ready are students (prospective mathematics teachers) to use scaffolding in teaching schoolchildren? We conducted an empirical study with students 2-4 years of study from March to May 2020. In the classes on the subject "Geometry", we used scaffolding in teaching geometry to students (prospective mathematics teachers). Using the online forum and online communication students are collectively guided to a shared solution of mathematical problems and learn how this contributes to their understanding of the mathematical concepts that are being employed. We also selected the appropriate math problems. In the classes on the subject "Methods of teaching mathematics", students themselves worked out the method of using scaffolding in teaching mathematics to grade 5 students.

The processing of our study was carried out using Wilcoxon test ( $n=25$ ,  $p=0,05$ ). Findings in this study revealed that second-year and third-year students with great interest and e-activity solved tasks on the subject "Geometry". Fourth year students showed greater interest on the subject "Methods of teaching mathematics". Our study will continue, preliminary conclusions are as follows: students (future teacher) have a completely different view of the methods of teaching mathematics and even gains new understanding and perception of the problems discussed in the school course.

**Keywords:** mathematics teacher education, scaffolding, distance teaching