Design of Learning Trajectory in Mathematics Learning Oriented to Students Communication and Collaboration Skills in the 21st Century

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ABSTRACT

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The purpose of this study is to produce a design of learning trajectory in mathematics on probability material oriented to students communication and collaboration skills in the 21st Century. The background of this research is the importance of mathematics in facing global competition in the 21st century so that each individual is able to become a good problem solver, able to communicate ideas and able to collaborate with others in solving problems. This research uses a design research development model through 3 stages, namely research preparation, implementation of research design, and retrospective analysis. The learning trajectory designed by utilizing spinner boards, using contextual and open problems, as well as being carried out in cooperative learning settings can help students to learn probability material and can facilitate students communication and collaboration skills. The revised learning trajectory can be used in a wider scope.

Kata Kunci: *learning trajectory, mathematics learning, communication skills, collaboration skills*