

# CONSTRAINTS FACING MATHEMATICS TEACHERS IN USING INTERACTIVE SKETCHPAD SOFTWARE WHEN TEACHING GEOMETRY TOPICS INCLUDED IN THE MIDDLE SCHOOL COURSES

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***ABSTRACT\_** The study aimed to identify the Constraints facing mathematics teachers in using interactive Sketchpad software when teaching geometry topics included in the middle school courses in Sabia Education administration from their point of view, The researcher used a questionnaire composed of four axes (constraints related to the physical environment school equipment, constraints related to the teacher, constraints related to the student, constraints related to professional development programs. The number of members of the study sample (82) male and female teachers. The study reached a set of results, most notably: The large number of students in the classroom, unavailability of device for each student, the lack of training programs for training in using Sketchpad software in teaching mathematics, inconvenient times of professional development programs related to training on the integration of technical education. As well as the study concluded that there were no statistically significant differences at the level (0.05) between the views of respondents about the constraints due to the variables of gender and years of experience teaching. The study recommended necessity of training mathematics teachers on the use of modern software in teaching mathematics, providing special laboratory of mathematics methodology including modern technologies.*

***KEY WORDS:** Constraints, Interactive Sketchpad Software, Male and Female Teachers of Mathematics, the Middle Stage.*