

VISUAL IMAGES OF BIOLOGY TEACHER CANDIDATES REGARDING LABORATORY CONCEPTS

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Abstract

Purpose of the present study is to determine the visual images of the biology teacher candidates by moving from their imagined pictures regarding laboratory concepts for biology education. Status pattern were used in the qualitative research modelled study. 86 biology teacher candidates participated in the study selected as purposeful sampling. A question asked to the biology teacher candidates to draw what they laboratory concept remembers them regarding biology education. Data were evaluated with content analysis. At the end of the study, it was found that the visual images of biology teacher candidates regarding the laboratory concepts can be classified in many groups. In this manner it was observed that the biology teacher candidates drew commonly used laboratory tools as microscope, beaker, test tubes, flasks, scrubs, straws etc. These results mean that biology teacher candidates are matching the images of the tools used in the laboratories and laboratory concepts while embodying these concepts in their minds. Afterwards, it was observed that biology teacher candidates make drawings regarding laboratory works, laboratory environment and observations from microscopes. At this point effects of laboratory works and general environment's effects on images following laboratory tools. Especially as the importance of the microscope in laboratory studies considered it was found out that obtained visuals are effecting the visual images of biology teacher candidates. Suggestions regarding the subject were given after the study results discussed with literature.

Keywords: Laboratory concept, visual image, teacher candidate, drawing technique.