INVESTIGATING STUDENT TEACHERS' UNDERSTANDİNG OF MODELS İN SCİENCE EDUCATİON

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Abstract

The purpose of the study was to investigate student teachers' understanding of the role and nature of models. One hundred and sixty four student teachers from various departments (23 physics, 17 chemistry, 21 biology, 47 science and 56 elementary education) were voluntarily selected and participated in the study. The study was conducted with students enrolled in teaching science methods course at one of the largest western universities of Turkey. Data were collected via a five-point Likert-type scale developed by Treagust, Chittleborough & Mamiala (2002) and adopted Turkish by Güneş et al. (2004). Preliminary findings indicated that student teachers had a variety of conceptions about models. Further findings and discussions will be made during the presentation.

References

Güneş, B., Bağcı, N., & Gülçiçek, Ç. (2004). Fen bilimlerinde kullanılan modellerle ilgili öğretmen görüşlerinin tespit edilmesi. *Gazi Üniversitesi Abant İzzet Baysal Üniversitesi Eğitim Fakültesi Dergisi, 4*(7), 1-14.

Treagust, D. F., Chittleborough, G., & Mamiala, T. L. (2002). Students' understanding of the role of scientific models in learning science. *International Journal of Science Education, 24*(4), 357-368.

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