

2. TIẾNG ANH

INFORMATION PAGE OF DOCTORAL THESIS

Name of thesis: Teaching within a socio-cultural context using the STS model: A case study in teaching the topic "Sound" – Grade 7 Natural Sciences.

Major: Theory and Methodology of Subject Teaching (Physics)

Code: 9140111

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Abstract: In the context of educational reform in general education, oriented towards developing students' qualities and competencies, the integration of cultural and social education content into subject teaching, especially in science subjects, is becoming an urgent requirement. This dissertation focuses on researching the application of teaching connected with cultural and social contexts based on the STS (Science – Technology – Society) model, aiming to foster students' responsibility towards cultural and social issues in their local area, where they live and study. On the basis of a theoretical and practical overview, the dissertation has systematized and developed the theoretical foundation for teaching connected with cultural and social contexts based on the STS model, aiming to foster students' responsibility towards cultural and social issues. This includes: the concept of teaching connected with cultural and social contexts; the process of designing teaching connected with cultural and social contexts based on the STS model to foster students' responsibility; and the construction of a framework for students' responsibility towards cultural and social issues, including specific components, manifestations, and evaluation criteria that can be used in research and teaching practice.

Building upon the theoretical foundation and practical survey in the local area, the dissertation successfully designed the process for organizing the teaching of the topic Sound in the 7th grade Natural Science curriculum, connecting it with the cultural and social context in the Central Highlands region according to the STS model. The implementation of pedagogical experiments in several secondary schools showed that: (1) teaching connected with cultural and social contexts had a clear effectiveness in developing students' responsibility towards cultural and social issues; (2) while simultaneously not diminishing students' academic performance. Notably, the results of the pedagogical experiment had a strong impact on the community through press and media related to the preservation of the culture of indigenous musical instruments in the Central Highlands.

Regarding research methodology, the dissertation combined case study research with both qualitative and quantitative evaluation tools, contributing to enriching research approaches in education. The research results not only have theoretical value but also open up practical avenues for implementation in various subjects, topics, and other local contexts."

Keywords: Context-based teaching; Culture and society; Responsibility; Sound; STS model.