



**Área: EDU**

*(Inserir a sigla da seção científica para qual o resumo será submetido. Ex: ORG, BEA, CAT)*

## **Extension Project “Show das Ciências”: Exploring Chemistry Concepts in a Playful and Educational Way**

**Leidi Cecilia Friedrich (PQ), Bruno M. Ianoski (IC), Felipe H. L. Barboza (IC), Jaqueline A. C. Serra (IC), Leticia M. Ferrazzo (IC), Marco Antonio C. Goes (IC), Nathan G. E. Silva (IC), Mara F. Parisoto (PQ) e Ana Paula R. Silva (PQ)**

**[leidif@ufpr.br](mailto:leidif@ufpr.br)**

*Departamento de Engenharias e Exatas, UFPR – Setor Palotina*

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### **Highlights**

The Show das Ciências project popularizes Chemistry in an engaging way. Theatre and Science come together to spark students' interest. Chemistry experiments are presented in a playful and visually appealing manner.

### **Resumo/Abstract**

University extension plays a fundamental role in teacher education by providing formative experiences that go beyond the traditional classroom environment. Through extension projects, it is possible to strengthen the connection between the university and society, as well as to promote the application of academic knowledge in real-world contexts. In this context, the Show das Ciências extension project, developed at the Universidade Federal do Paraná – Setor Palotina, aimed primarily to popularize Science and to stimulate the interest of Basic Education students in the Degree Program in Exact Sciences. The proposal involved the creation and presentation of an interdisciplinary theatrical performance, with an emphasis on the areas of Chemistry, Physics, Mathematics, and Computing. In the field of Chemistry, the experiments presented addressed fundamental concepts such as changes in the physical states of matter, acid–base reactions, redox reactions, and gas release, all contextualized in a playful and visually appealing way. This approach sought to spark students' curiosity and demonstrate how chemical phenomena are present in everyday life, making learning more meaningful. The methodology adopted in the project comprised two main stages: (1) the development of a theatrical script that integrated scientific experiments related to the four areas mentioned, and (2) the presentation of the play to Elementary and High School classes from schools in the municipality of Palotina (PR) and surrounding region. The results highlighted the potential of university extension as a strategy for teacher education and for strengthening the relationship between the university and the school community. Finally, the project also aimed to enhance the academic training of the participating undergraduates while fostering the production of scientific knowledge on pedagogical practices using theatre as a playful and educational approach.

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