

Título: THE USE OF PRACTICAL ACTIVITIES TO MICROBIOLOGY TEACHING IN ELEMENTARY SCHOOL

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Resumo:

Microbiology is the area of science that studies micro-organisms, both unicellular organisms to multicellular who have microscopic dimensions. The advancement of microbiology has always been dependent equipment such as microscopes, as well as forms of cultivation and microbial control, and is a complex issue for many students. Most schools do not have infrastructure and equipment enabling the presence of microbiology laboratories, so this discipline is rarely addressed in elementary school, and even when addressed is theoretically only, without any greater interest from students. The aim of this paper is to present microbiology concepts to elementary school students (6th to 9th year), using as a methodological resource class practices and alternative materials that can be used in any school. We conducted three practical activities: (1) the research of contamination of hands by fungi; (2) the practice of Swab in ornaments and objects used in day-to-day; and (3) the fermentation by bacteria. It was also done applying a pre-test and post-test to evaluate the concepts students, respectively, before and after applying the practical activity. The first activity was held to show students that the presence of contamination in test tubes causes the color change reaction for growth of fungi versus the presence of bromothymol blue solution. The second activity was performed using Petri dishes containing culture media where growth of micro-organisms from loud and objects frequently used in everyday allowed the identification of different types of micro-organisms. The third practice was held fermentation using bacteria that release carbon dioxide production and make bladders suffer a format change, ie inflate with gas production. It has been observed due to the behavior of students, interest and curiosity in the subject, most with practices that only activities with lectures and that the assimilation of concepts was higher after the realization of practical activities.

Keywords: microbiology, practical classes, basic education, sciences, microorganisms

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