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THE EFFICIENCY OF "NUCLEAR WAR" ABOUT RADIOACTIVITY ON SCIENTIFIC WRITING SKILLS' OF STUDENTS

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Abstract

The goal of this study is to enable the practice of alternative applications which will enhance and improve the physical and mental activities of the secondary education students in science courses and to analyse the effect of these studies on scientific writing skills of the students. Within the framework of the study a game about radioactive decay was prepared. This study explains the alfa, beta and gama radioactive decays and it is a card game which will provide students to understand the subject matter. Furthermore, it comprises the whole radioactivity subject matter. The related activity enables students to define the types of radioactive decay and to express what they have learnt orally in a social environment. 42 students, who attended to the pedagogical formation Certificate Programme in Çankırı Karatekin University and 24 high school students in 12th grade in a district of Çankırı were chosen in 2015-2016 Academic year as a sample group for this study. Radioactivity was taught to the students in high school under the realm of Physics and the applications were carried into practice as an extracurricular activity after the courses. A discussion was done with the students in Pedagogical Certificate Programme to let them refresh their previous knowledge before teaching and afterwards the study was done with those who were volunteers. Students were required to do a scientific writing practice within the context of radioactivity before and after the activity. After the study a significant change was noticed in the scientific content of these writing practices.

Keywords: Radioactivity, radioactivedecay, extracurricularactivities , sciencewriting.