



### **Open Schools Journal for Open Science**

Vol 3, No 4 (2020)

Special Issue - 2nd Encontro de Ciência Cidadã

			Science in the School Playground A. Cavalheiro, E. Calvo, M. A. Santos, V. Costa doi: <u>10.12681/osj.23414</u>
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VOLUME 3 - ISSUE 4 - 2020 ISSN: 2623-3606		~~~	

To cite this article:

Cavalheiro, A., Calvo, E., Santos, M. A., & Costa, V. (2020). Science in the School Playground. *Open Schools Journal for Open Science*, *3*(4). https://doi.org/10.12681/osj.23414



# **Science in the School Playground**

A. Cavalheiro<sup>1</sup>, E. Calvo<sup>1</sup>, M. A. Santos<sup>1</sup>, V. Costa<sup>1</sup>, students from class 4.<sup>Q</sup>F<sup>1</sup>

<sup>1</sup>Escola António Gedeão, Agrupamento de Escolas Cidade do Entroncamento, Entroncamento, Portugal

#### Abstract

How to improve our school playground? Based on the school plan and the surrounding area, it was decided to promote science activities in the playground by sharing scientific knowledge. In these activities, 20 pupils and 4 teachers participated as organizers, covering a community of 244 pupils (ages 3-10), 18 teachers and 11 other school's staff. We chose a set of scientific questions, connected with the knowledge of space, the influence of the Sun in our lives and with the protection of bats. We promote the questions through two tools: a conference and an exhibition, both organized by the students. The conferences was prepared in small groups, by exploring and using reliable scientific sources such as Ciência Viva science centres and ESERO Portugal. In the exhibition scientific knowledge was offered at the school playground, in an experimental, interactive and dynamic approach, where we were the facilitators and guides of the other students and the educational community.

#### **Keywords**

Bats; science; school playground; solar system; sun.





### Conferência OSOS

**Open Schools for Open Societies** 

Pavilhão do Conhecimento – Centro Ciência Viva 14 Fevereiro 2020

## Science in the school playground

Escola António Gedeão • AE Cidade do Entroncamento • Entroncamento • Anabela Cavalheiro, Élia Calvo, Maria Ana Santos, Vasco Costa • Students from 4.º F

#### Resumo Abstract

How to improve our school playground? Based on the school plan and the surrounding area, it has been chosen the possibility of promoting science activities in the playground by sharing scientific knowledge. In these activities, 20 pupils and 4 teachers participated as organizers, covering a community of 244 pupils (ages 3-10), 18 teachers and 11 other people part of the staff's school.

Palavras-chave: Science; School playground; Sun; Solar system; Bats.



The aim of the project was to recover the space in the school playground, promoting the scientific spirit. It started from the students' experiences and choices. Three moments and three areas were defined on which to share knowledge.







A mini-planetarium and some mini-conferences were organized in the school playground. It was built a bat shelter and it was carried out a raising awareness on behalf of these animals. With the theme "Around the Sun", it was promoted a solar observation by using a solar scope; it was cooked using a solar oven and several experiments were carried out in regarding temperature and the influence of color.





For the scientific preparation Alviela's and Constância's CCV (PEDIME program) were visited . Experiments were carried out inside classroom and in different other contexts, always with the support of «Ciência Viva» and ESERO Portugal (Understanding the Earth through Space).





It was promoted Scientific knowledge by sharing the dynamics of the «Agrupamento» in the area of science and the OSOS project, participating in the «Palmo e Meio» Scientific Congress. The work was published and integrated in a task from the Institute of Nature and Forests Conservation.





