

The Periodic Table: An Interdisciplinary Learning Based Project in Secondary School

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Abstract:

The Periodic Table of Elements has been considered difficult to teach by many teachers, especially in lower grades secondary school students¹. Project Based Learning is one active learning method that not only facilitates the integration of multiple subjects but also approaches students with real life situations and encourages motivation². Thirteen year old students participate in a Periodic Table project that involves up to seven subjects, approaching all of them to the chemical elements by means of different points of view. Researching scientists' lives, writing letters to some of them, visiting their home cities with GMaps or studying main uses of elements, our students collected information that is now shown on a three-dimensional giant Periodic Table built by them. Each element is shown in a geometric cube with four faces at sight, each one of those faces displaying relevant information related to the element.

The abstract contains an illustration to better explain the work

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References

1. Mokiwa, H. O. *Eur. J. of Math., Sci. and Tech. Ed.* **2017**, 13(6), 1563-1573.
2. Project-Based Learning, *Edutopia*, March 14, **2016**