

Title: **Flipped classroom. Implementation of the topic: “Ideal gases”**

Student: Marc Cruz Prada

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Supervisor/s: Dr. Xavier Giménez Font

Departament of ciència de materials i química física

Currently, most of the subjects taught in the secondary school and the university, works with a master classes, in this type of classes the teacher explains, and the student takes notes. But nowadays a new methodology called **flipped classroom** has appeared and the traditional roles have changed.

In this new way of doing class, the student is much more active during the learning than in a traditional class. As they work with a **worksheet**, there are different activities that must be done individually, and they can consult different sources of information.

In this assignment, one unit of the chemistry class in the course of 1st of **batxillerat** called “ideal gases” will be developed with this new methodology. And there are the different difficulties appeared during the development of the lessons.

During the implementation of this new way of teaching, there is an improvement in the marks of the students who do the class with this new methodology. Also, in this study there are different observations collected during the activity in the school. The study also includes opinions from teachers and students as well as possible improvements for the flipped classroom.

Keywords: Master classes, flipped classroom, worksheet, batxillerat.