



Smashing! Real-world clashes into physics classes

## Overview of tasks and assignments

In this project you, together with your teammates, will search for a real-life situation in which a collision occurs. You will try to identify the physical quantities involved and you will think of a simple experiment to simulate this phenomenon. To start up the project, you will first do some assignments that will help you get to know your foreign teammates.

These are the different steps that you have to take:

1. Log in on the Twinspace and contact your teammates.

October

2. Belgian students will create a Padlet for their team. On that Padlet all teammates will post their individual texts and photos.

October

3. Design a logo for the project.

For the Twinspace of our project we need a logo. All the Italian and all the Belgian students will create a logo (either individually or as a team). The teachers will select about 3 logos in their own country. Eventually, everybody will be asked to log in to the Twinspace and vote the best logo.

The logo should show the following items: a collision, Italy and Belgium.

You can draw the logo on paper with pencil and so on, or you can design it by computer.

**Deadline: Tuesday 22 October 2019**

4. Write a text in which you present yourself (see task assignment English) and post it on your team's Padlet.

October

5. Brainstorm with your teammates. Propose a real-life situation in which a collision occurs and describe the experiment you want to do in order to simulate the phenomenon.

The real-life situation and experiment must be posted on the forum on the Twinspace AND approved by the teachers by Thursday 7 November 2019. First come, first served!

6. Make a short film in which you present your school, hometown ... (see task assignment English)

November

7. Write the protocol for the experiment and publish it on the Twinspace
  - a. The Belgians will write the orientation (description of the real-life situation, research question, hypothesis) – *Do mind that the Italian team members need to approve of this part before the Belgian team members can publish it!*
  - b. The Italians write out the preparation (materials needed, procedure) – *Mind that the Belgian teammates need to approve of this part before the Italian team members can publish it!*

Deadline: Friday 29 November 2019

8. Run the experiment and make the conduct (measurements, analysing, examining)

January

9. Finishing the scientific report:
  - a. The Belgian students write the conclusion.
  - b. The Italian students write the comparison.

Deadline: Friday 14 February 2020

10. Create your team-page on the Twinspace.

The following items have to be on the page:

- a. Real-life idea
- b. Research question
- c. Pdf-document of completely finished scientific report
- d. Conclusion and comparison
- e. Twinboard with pictures, movies ...

**Deadline: Friday 6 March 2020**