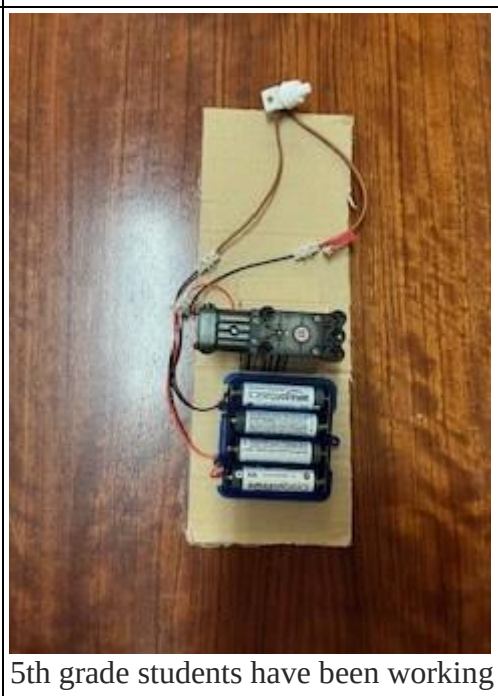
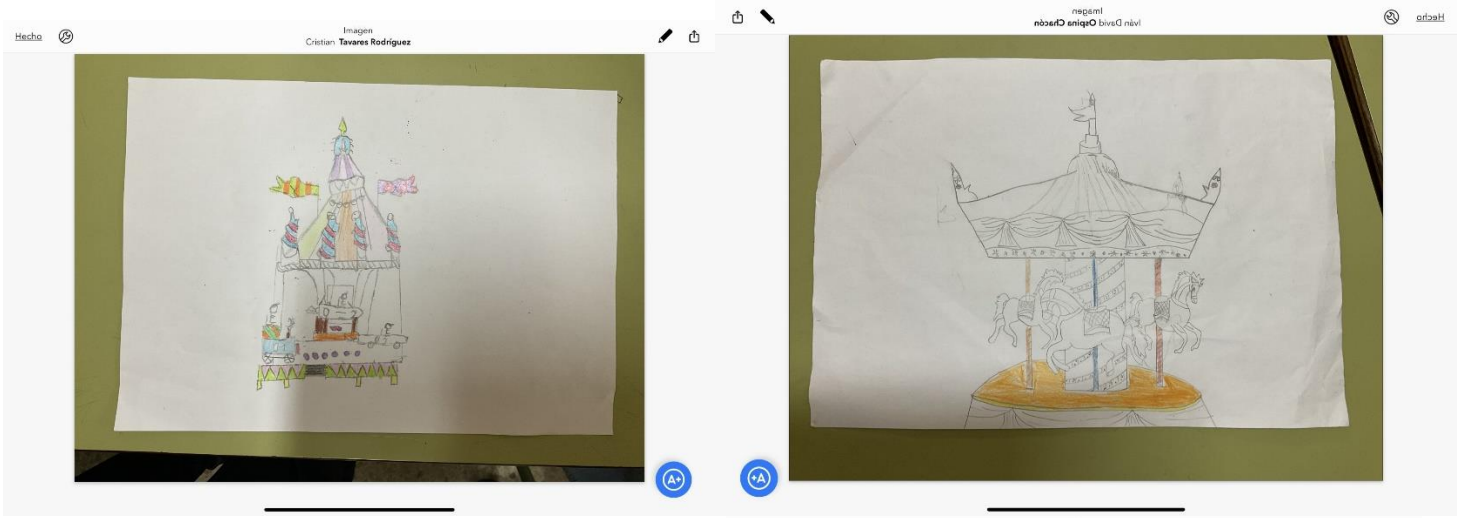
Log book- My carousel is under construction

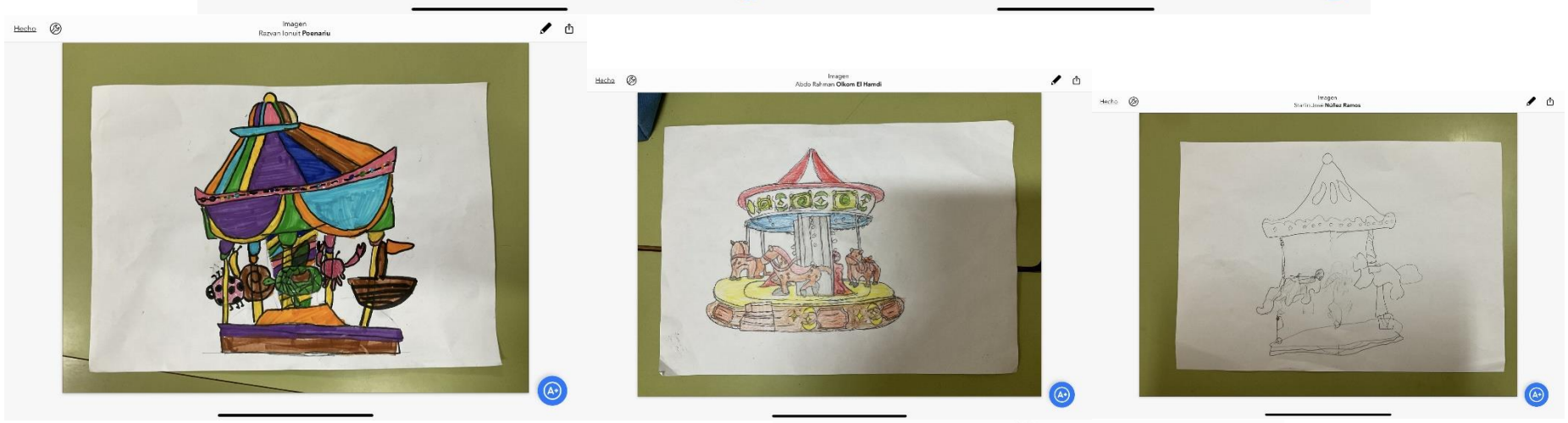
Country: SPAIN
City: VALLADOLID
School: CEIP MIGUEL DE CERVANTES
Age of the students: 10 AND 11 YEARS OLD
Teacher: MARTA LIAÑO PAREDES

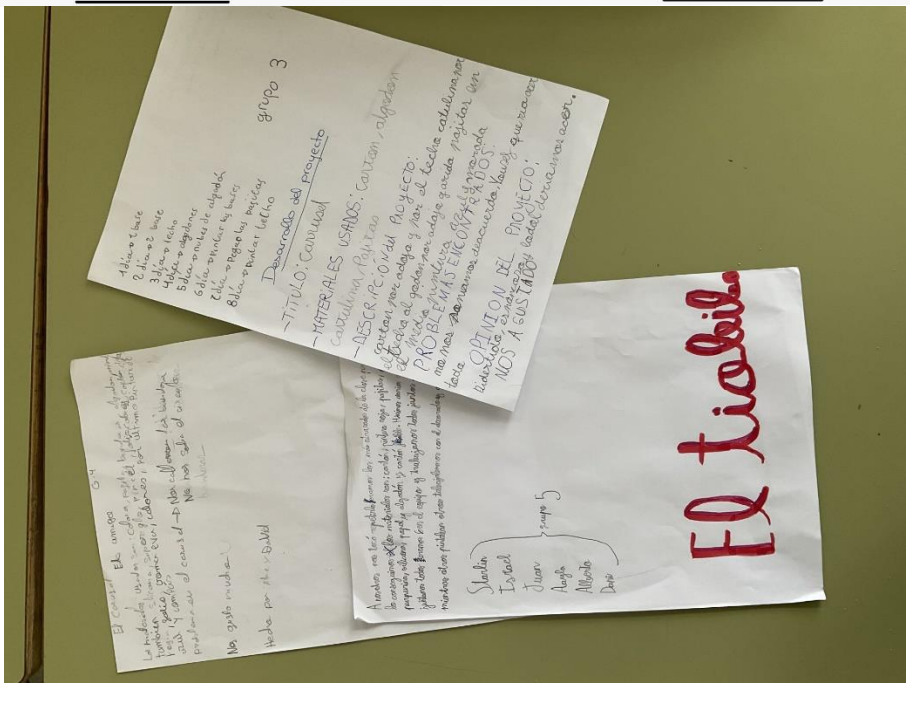
Name of the carousel	EL TIOVIVO
Picture of the carousel	    
Equipment / Materials used	 5th grade students have been working on a carousel called "El tiovivo". These students are 10 and 11 years old. The carousel has been designed and built with a crank. Its axis of rotation of the crank is perpendicular to the axis of rotation of the merry-go-round. This part has been the most difficult one for the students and here the teacher has helped them. The carousel fits into a closed A4 paper ream box although when we put it inside, we almost destroyed it.

Students have used some recycled materials such as: cardboard, cuts of poster boards, straws, cotton, acrylic paintings... and we have used the motor from a remote-control car that I have at home.
When you see our carousel the only thin you can miss is the plate to count the revolutions. I am not an expert and we have several problems to create it. Sorry about that!!!

some written records from the students' experiment notebook (drawings, diagrams, observations, etc.)







The written trace explaining the investigation approach used. This should highlight the trials and error and the different steps of the process.

We started the project by sharing the students in groups. First students in their groups thought about their ideal carousel and started drawing it individually. Then, in the next session students decided which picture they like the most and why, for example, which things they would like to have in their carousel. So, after taking a lot of ideas they created a draft (one for each group), they draw it and they colour it.

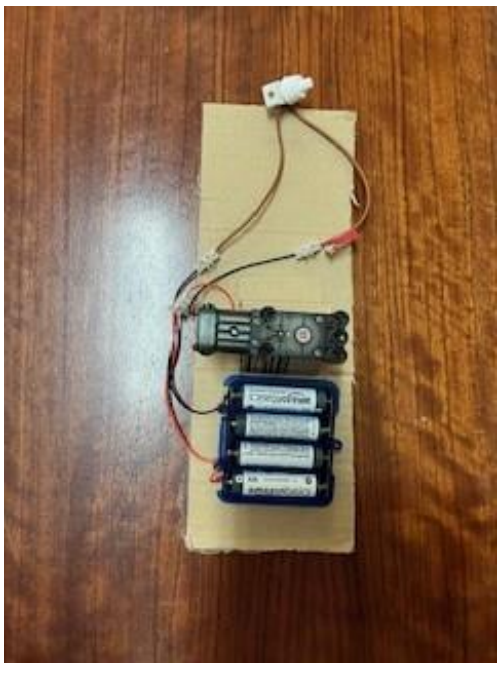
After this, they started to build the carousel. At the beginning it was a little mess because they had lots of problems about the materials, they wanted to use about making agreements… Finally, they started to work on it. Some groups had to repeat the basement… After several sessions working on it they felt more comfortable and relax and they also felt proud on what they were getting.

Nobody had any idea about motors, so we tried to investigate and finally we decided to use a remote-controlled motor from a car that the teacher had, and we used a switch to switch it on and off. As we are not experts when you see our carousel the only thing you can miss is the plate to count the revolutions. I am not an expert and we have several problems to create it. Sorry about that!!!

As we have said before each group of students have created a carousel so we have done and exhibition at school.

Students are really happy with the results so they want to continue working on this kind of things and they want to participate in more eTwinning projects.

A diagram of the motion transmission system



An user guide of the carousel

It is very easy ! You climb the stairs and when you are ready you switch on the switch.