

# Holographic exhibition

## Tasks

Students have to search build an holographic pyriamid with acetate paper. They could use it with acuarium videos, and with a gaget as tablet or iphone they could make an exhibition about fish species in an innovative way.

## Skills and competences

### – Targeted

- Working in groups playing different roles.
- Explain and debate with fellow group.
- Use technology tools.
- Manipulative skills

### Emerging

- Share knowledge with others.
- Learn to learn
- Science competence

## Learning goals

- Build an holographic pyramid and record a tutorial about how do it.
- Search information about what are holograms.
- Learn about the holograms uses.
- Learn about light's properties.

## Digital Tools

Internet

Hologram creator app

## Explore

As this activity match with confinement of covi-19, students couldnt work in group neither explore information together, them teacher showed them videos about holograms through videoconference and make a debate with them. In class they will match this activity with the light properties topic.

## Analyse & Explain

Students should think about the role of holograms in the actual world: medicine, science, learning, exhibition, marketing and the hologram as a substitute of photos. They must explain their opinion in the videoconference.

In class they could learn about light's properties and how is posible the holograms go on.

## Implement

The aim of this phase is for students to develop a tutorial to explain how you can make a homemade hologram and use it for an acuarium fish exhibition. Use holograms instead of photos. In class they could make a powerpoint about what is an hologram, how it works, which are the different uses...

## Communicate results

Students will present to others their work with a videotutorial. And if they could be in class, could make a powerpoint t explain what they have learned about light and holograms. And a hologram fish exhibition

**Title: Hologram exhibition**

**Teacher: María Pazos and Lucía Pérez Martínez**

**School: CPI Plurilingüe O Cruce                      Class: 6°**

**Task:** Learn about light's properties and relate this knowledge to understand how holograms go on. Search information about the role of holograms now a day and in the future. Make a powerpoint with this information (this part will be made if students were not confined). At last we prepared a videoconference to explain all this topics and they have to build the homemade hologram pyramid, make a tutorial and show the result using "Hologram creator" app.

### Phases of the project

The teacher will assess all project phases

<u>Explore</u>	<u>analyze, explain and document</u>	<u>Implement</u>	<u>communicate results</u>
Teacher will guide students about search information	Teacher will guide students about analyze data, make conclusions, organize the collaborative work...	To make the hologram pyramid, teacher show them how do it, them at home they must do their own and record a tutorial explaining the process. After that they could test it using youtube videos. Finally using "hologram creator" they could use videos they have recorded in the aquarium and see the video as an hologram.	Making videotutorials and if we would not have been confined we could prepare a hologram exhibition in a dark room with relaxing music using several ipads to show different fish species.

**3. Implement;** In this activity students could work some of learnings that are includes in our curriculum, for example:

B4.1. Coñecer leis básicas que rexen fenómenos como a reflexión da luz, a transmisión da corrente eléctrica, os cambios de estado e as reaccións químicas: a combustión, a oxidación e a fermentación.

**4. Communicate the results.**

Using video editor, powerpoint app “Hologram creator”