



FLIPPED CLASSROOM VIRTUAL REALITY RESOURCES



Fourth short-term exchange of groups of pupils in Spain



Flipped Classroom strategy to fight against school absenteeism improving students motivation and performance

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I.E.S. "LOS CERROS"



Co-funded by the
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Introduction

In this second workshop we are going to experiment some Virtual Reality applications in education.

We will learn about:

- ✓ YouTube 3D Videos
- ✓ 360° pics and virtual tour apps
- ✓ Education VR apps
- ✓ Games VR apps and others





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Introduction

It is required to use a viewer with special lens in order to run virtual reality apps in our mobile phones. An option is a Google Cardboard. You can learn how to assemble one of them in the next video:

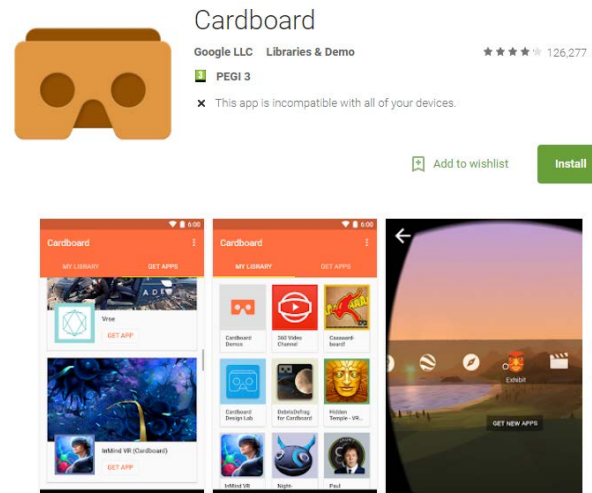
Video: [how to assemble a Google Cardboard](#)





Introduction

- ✓ In this particular workshop we are going to use a Mini 3D VR folding glasses.
- ✓ First thing we are going to do is to install the app Google Cardboard in our mobile phones where we are going to setup the visor and to explore a demo.





Youtube 3D Videos and immersive apps

- ✓ Now we are going to check the difference between 3D videos and immersive apps
- ✓ 3D videos: using your mobile phones search for **"3D Videos Cardboard"** on the Internet.
- ✓ Immersive apps: install and try the following apps in your mobile phones using the glasses. You will be able to experiment the difference between a video and an immersive app:
 - ✓ VR Thrills: Roller Coaster 360
 - ✓ Within
 - ✓ Fulldive VR (optional)





360° Pictures and Virtual tours

- ✓ A 360-degree photo is a controllable panoramic image that surrounds the original point from which the shot was taken.
- ✓ 360-degree photos simulate being in the shoes of a photographer and looking around to the left, right, up and down as desired as well as sometimes zooming. The viewer clicks any point on the image to drag it in the desired direction.



Google Street View



Google Arts & Culture



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360° Pictures and Virtual tours

- ✓ 360-degree photos are effective for showing off vistas, internal architecture and more in a dramatic fashion that replicates the experience of being there. The ability to create 360-degree photos is increasingly included in digital cameras and smartphones.



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360° Pictures and Virtual tours

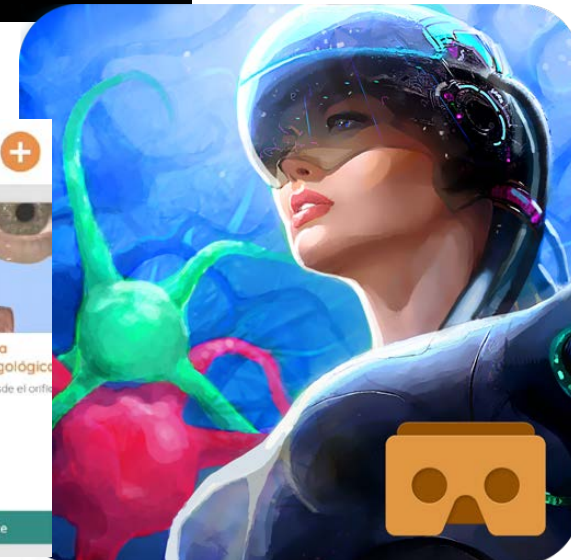
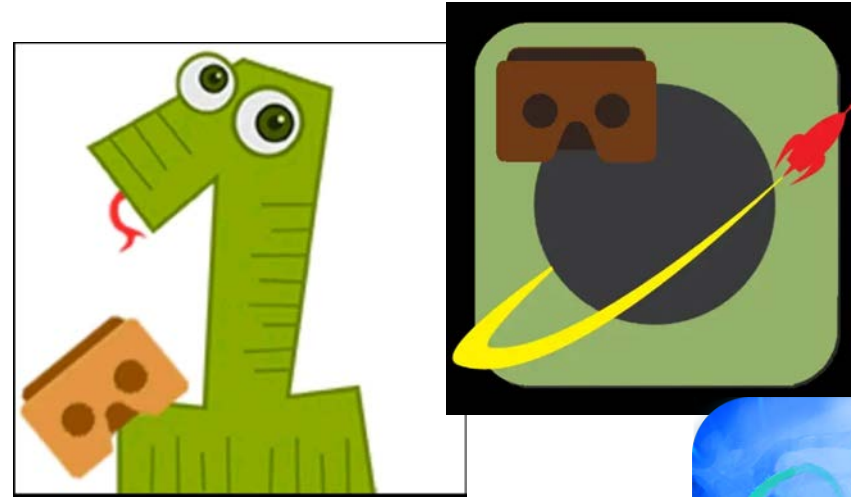
✓ Now using the glasses and your smartphones download and explore the next apps:

- ✓ Google Street View
- ✓ Sites in VR
- ✓ <https://miniverse.io/home>



VR apps for education

- ✓ There are many apps for education using Virtual reality. Download and try the next ones using your glasses and mobile phones:
 - ✓ Math VR
 - ✓ Math Miner VR
 - ✓ Anatomyou VR
 - ✓ In Mind VR (1 y 2)
 - ✓ Try to find others...





Games VR apps

- ✓ There are many game VR apps. Usually you control the action tilting your head. Install and try the next ones using your glasses and mobile phone:
 - ✓ VR Racer
 - ✓ Goal Master VR
 - ✓ VR Abyss
 - ✓ https://arloopa.com/#vr_projects





Other relaxing apps

- ✓ Using your cardboards and your smartphones install and explore the next relaxing apps:
 - ✓ Dream Journey VR
 - ✓ Relax River VR
 - ✓ Search for "VR" and try any other apps

