

Lesson Plan: RECORD A VIDEO USING CHROMA

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Subject: HISTORY

Title : Lesson	Time : 2 HOURS
Subject : RECORD A VIDEO	
Aim: LEARN ABOUT THE MOST IMPORTANT MONUMENTS IN YOUR COUNTRY	
Key CS elements: decomposition, pattern recognition, abstraction, algorithm design	
Age group : 1ST AND 2ND YEAR STUDENTS 12-14	
Learning situations: classrooms	Activity type : VIDEO
Resources : <ul style="list-style-type: none">• Chroma set (green screen)• Cameras or smartphones• Microphone• Video editing software ()• Images and information about famous monuments in Spain• Whiteboard and markers	
Learning development:	
Objective: <ul style="list-style-type: none">• To teach students how to use chroma key technology to create videos.• To develop computational thinking skills by breaking down the process, identifying patterns, and abstracting key concepts.	
1. Decomposing: We want to make a video using Chroma Set at school. For this purpose we should decide what we need for that. To begin with, students will learn about what a chroma set is and how to use it. After the introduction, students decide about the making of the video itself and check some ideas on the internet.	
Break down the process of creating a chroma key video into smaller steps: <ul style="list-style-type: none">• Set up the green screen.• Properly light the green screen and the subject.• Record the video with the subject in front of the green screen.• Import the video into video editing software.• Apply the chroma key effect to remove the green background.• Replace the green background with a new background.	

By working in groups, the students decide what to include on this type of videos.

- images of monument which will become the background when talking.
- text: what type of information should be included
- script: what to do and say during the video, by splitting into different parts so that everyone knows what to do when it is their turn.

2. Pattern recognition: (reconocimiento de un patrón)

Identify common patterns in chroma key video production:

- Consistent lighting to avoid shadows on the green screen.
- Ensuring the subject does not wear green or reflective clothing.
- Maintaining a clear separation between the subject and the green screen.
- Using high-quality video for better chroma key results.

3. Abstraction:

Identify common patterns in chroma key video production:

- Consistent lighting to avoid shadows on the green screen.
- Ensuring the subject does not wear green or reflective clothing.
- Maintaining a clear separation between the subject and the green screen.
- Using high-quality video for better chroma key results.

4. Algorithm design:

Step 1. Form the group with 4 or 5 people.

Step 2. Choose the monuments to show on the video.

Step 3. Write the script , including narration or dialogue, with the most relevant information, no longer than 1 minute per monument.

Step 4. Organize the order of appearance of all members of the group. Those with less confident can be given an easy description in order to make them feel good.

Step 5. Prepare the set for the shooting.

Step 6. Record the videos using the green background.

Step 7. Edit the videos to finish up the activity by using the App “Kinemaster”

Step 8. Follow the steps shown in the ppoint presentation to edit and finish the video edition.

PPOINT WITH THE EXPLANATIONS.

<https://docs.google.com/presentation/d/1wOc9VxVM3JbbGTYT0GnVTIjwPxT6PVuSxfTf-4nbKXI/edit?usp=sharing>

Assessment

Expected results: The students will have interesting videos where they will be showing, not only photos of the most relevant monuments and parts of the Alhambra Site, but also, short dialogues, performances related to the site. They will include historical detailed information as well as short role plays showing situations for real life.

Notes:

Colegio Cristo Crucificado Mula



Programa Erasmus 23-24
"Skills to catch the future"

Activity: Reporters at the Alhambra



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What are we going to learn?

- Some knowledge about the places you have visited in the Alhambra.
 - How to use a green screen (chroma).
 - Communication strategies.
 - Video editing techniques.
- But the most important thing is to have fun.



The problem



Imagine that yesterday you took photos and recorded videos to show your family and friends when you return. The problem is that there was a lot of noise, many people talking and passing behind you.

For that reason, we are going to prepare and record the explanations here on a green screen, and then take photos at the Alhambra from the internet. Later, we are going to use an app to put together everything we want to share.



Steps to prepare the information

1. Pair up with students from a different school.
2. Search on the Internet for places in the Alhambra.
3. Agree on selecting a specific place.
4. Gather information about that place. For example, what was it used for? When was it built? What type of decoration does it feature? etc...
5. Prepare a short dialogue between the two of you providing information about the place.
6. Practice the dialogue.
7. Record the dialogue on the green screen.



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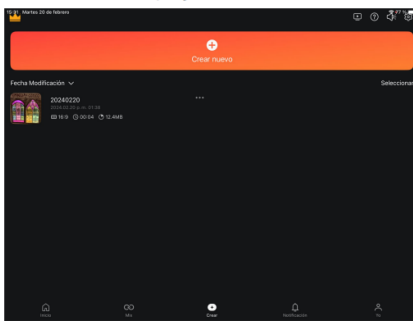
Steps to edit the video:

1. Download the Kinemaster application on your Chromebook or smartphone.
2. Find a photo or take a picture of the place you want to explain.
3. Open Kinemaster.
4. [Create a new project](#).
5. Choose the video format.
6. [Select a background photo](#). Upload the photo of your chosen place in the Alhambra.
7. In the layers section, [choose the video](#) you recorded with the green screen background.
8. Select the loaded video and click on "[Chroma Key](#)" in the options panel.
9. In the [key color option](#), choose the green color that closely matches the green of your green screen.
10. Click "[Show Mask](#)". Adjust the sliders until the background turns black and the characters turn white.
11. Adjust the size and position of the reporters.
12. Export the video.

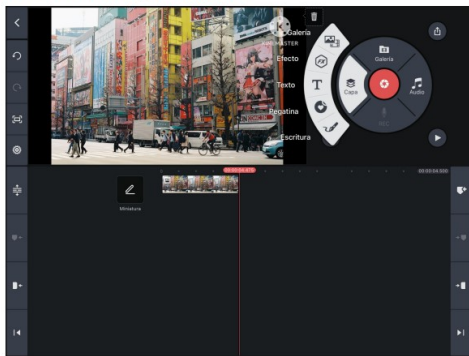


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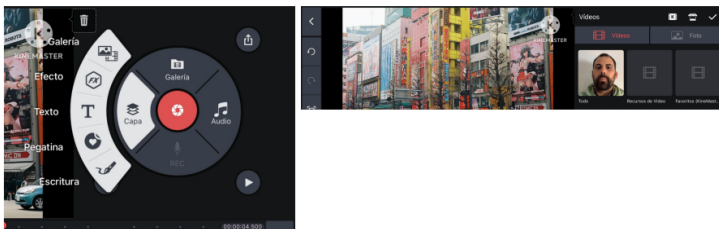
4. Create a new project.



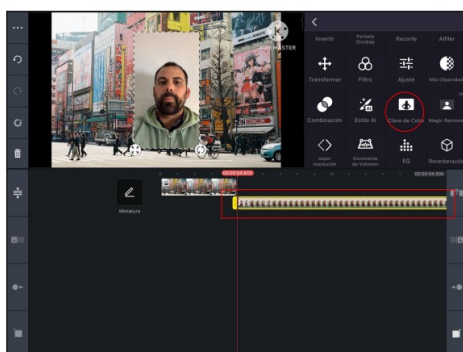
6. Select a background photo



7. In the layers section, choose the video you recorded with the green screen background.



7. Select the loaded video and click on "Chroma Key" in the options panel.



9. In the key color option, choose the green color that closely matches the green of your green screen.

