

Title: “Creating cartoons for teaching environmental education”

Teaching Plan – At list two lesson hours

Cognitive Subjects: Science, Informatics, Environmental Education

Education Level: Secondary Education - High School

Abstract

The aim of this Learning Scenario is the comprehension of scientific way of thinking while acquiring digital skills.

In the first phase, students propose solutions to save fresh water.

In the second stage, they create Cartoon videos presenting their proposals and finally they present the videos.

Objectives

The aim of the teaching proposal is to combine Environmental Education with an educational practice that arouses the students' interest, in order to better achieve the final goal, which is the development of critical thinking (Problem Solving Method).

Specifically: Cultivating scientific thinking, raising awareness of issues related to environmental protection, enhancing digital skills, developing collaboration skills.

➤ **Assignment 1**

Topic:

Saving- recycling – reusing water at home or at school.

Goals:

- Education for sustainability – goal 6 of sustainable development
- Active search for knowledge - Recording ideas about the subject to be studied
- Solving problems through group activities
- Education on use and creation of digital material. (Animation creation)

Step 1 Study of the following material:

- Are we running out of clean water? Video

https://www.ted.com/talks/balsher_singh_sidhu_are_we_running_out_of_clean_water#-7938

- Greywater recycling video I

<https://www.youtube.com/watch?v=vI1a3LbC8I8>

- Greywater recycling video II

<https://www.youtube.com/watch?v=y8kipgTJDUw>

- Water footprint

Water footprint

- Water footprint video

[Arien Hoekstra on The Water Footprint of Modern Consumer Society - YouTube](#)

- Personal water footprint calculator

<https://waterfootprint.org/en/resources/interactive-tools/personal-water-footprint-calculator/>

- Personal water footprint calculator extended

<https://waterfootprint.org/en/resources/interactive-tools/personal-water-footprint-calculator/personal-calculator-extended/>

- Basic Information about Water Reuse

<https://www.epa.gov/waterreuse/basic-information-about-water-reuse>

Step 2 Writing two or more proposals for saving – recycling – reusing water at home or at school.

1st Proposal:.....
.....

2nd Proposal:.....
.....

3rd Proposal :.....
.....

➤ **Assignment 2**

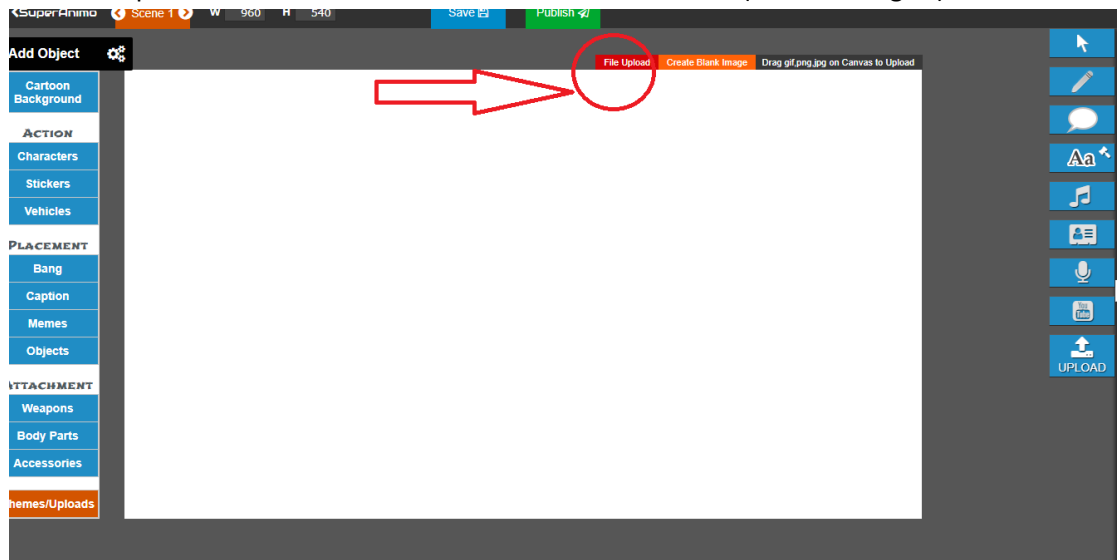
At this lesson, firstly students write a scenario about water management based in one of their proposal.

Secondly, they use the application Super Animo to create a Cartoon Video about the proposed scenario.

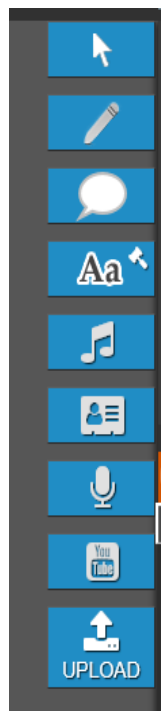
Finally, they present their videos and there be a group discussion.

Instructions: SuperAnimo -Cartoon Video Maker

- Watch the video:
<https://www.youtube.com/watch?v=X-2yXyVXTJQ&t=9s>
- Select the link:<https://www.superanimo.com/>
- Sign in with your gmail account
- Select create animation
- From the options menu above I can add the files I wish to use (such as images)



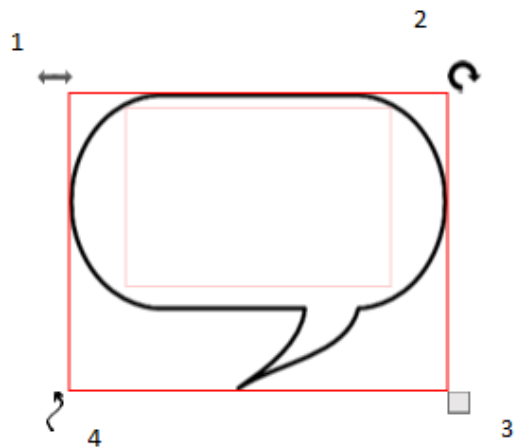
- From the left-hand options bar select Cartoon backgrounds to choose a background
- Then select Characters to add characters
- - From the options menu on the right



1. The arrow is the most important key. With it you can edit your add-ons (copy, hide, delete, image editor, effects - just by double-clicking on the add-on)
2. Write with pen, spray, etc.
3. Add words to your characters
4. Add text anywhere on the screen
5. Add music from audio files available in the program
6. Add speech in characters, it recognizes only the English alphabet
7. Record
8. Upload files from youtube
9. Upload files from those you have already saved in SuperAnimo

- **Attention very important: For each step you take save**

- When you add objects you have the following options:



a. change their orientation

b. rotate them

c. resize them,

d. add motion to them

For d. I select the arrow and move it to show the trajectory it should follow. Each time I want to add a point to the trajectory I select + or if I want to delete I select -.

- I can create as many scenes as I want.
- When I finish my work I publish it after giving it a name.
- Then I save the link and share it or download it to my PC.

Edited by E.Korakaki