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Addressing the Global Climate Crisis in Your Classroom – 2021 Edition

SUMMARY INFORMATION

Title: *Rising awareness on environmental changes*

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Short description: *Students will detect problems in our town, explore them and suggest solutions in a way to propose what could be done. They will tackle pollution, infrastructure, our way of life and habits. Final product will be web site with explored topics and presentations on the solutions. During their work students will use variety of web 2.0 tools to present ideas.*

Table of summary

Subject	<i>ICT</i>
Curriculum integration	<i>Using web 2.0 tools to prepare and present ideas on sustainable living – part of ICT curriculum on 1st grade of general high school</i>
Age of students	<i>15</i>
Number of students	<i>48 (2x24)</i>
Time frame/duration	<i>Three months project (could be eTwinning project)</i>
Learning objectives	<i>Developing digital skills, critical thinking, media literacy. Raise awareness of the environmental issues, learn how to improve way of living.</i>

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Resources and tools	<i>Broad range of web tools: uebermaps to map all the problems in our city (infrastructure, parks, unmaintained parts), footprint calculator (https://www.footprintcalculator.org/home/en), ARloopa and Canva for interactive poster, Google maps, Wix, Prezi, Thinglink, Coggle, Padlet, qr code generator, video editing tools, photo editing software, 3D modelling/design software</i>
Expected results	<i>Web site in Wix with solutions for improving our city and the living environment of its habitants.</i>

PROCEDURE

Work process

State how you intend to work with students. If you wish to create teams of pupils or collaborate with other schools or classrooms, please provide relevant information.

All students will calculate their carbon footprint and then work together on uebermap of our city (Bjelovar, Croatia) and add few spots describing critical issues in the city: big air pollutants, neglected parts of the city, parts with traffic problems.

Students will then be divided into teams of four. Each team will choose one of the topics to explore and suggest solution:

1. Improving traffic problems in the city (google maps, present solution in Canva or Thinglink, publish in Wix)
2. Redesign unused space in the city (photoshop, 3D modeling, present solution in Prezi and publish in Wix) – different than others
3. Redesign unused space in the city (photoshop, 3D modeling, present solution in Prezi and publish in Wix) – different than others
4. Redesign unused space in the city (photoshop, 3D modeling, present solution in Prezi and publish in Wix) – different than others
5. Reducing pollution: air pollution, light pollution, garbage (Coggle, present solutions as e-magazine in Wix)
6. Preparing 30-day simple goals calendar (Canva, qr code generator, publish in Wix)

After they are finished with a group work, all prepared materials will be published in joined Wix site with links to useful resources.

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Activities

Provide an overview of the activities that you are planning for this project. Explain the procedure, the tools you are going to use, your role and that of the students.

Name of activity	Procedure
Carbon footprint	<p>Students will use tool to calculate their footprint, they will share results on a Padlet.</p> <p>Teacher explains how to use calculator and prepare Padlet.</p>
Problem map	<p>All students will work together on uebermap of our city (Bjelovar, Croatia) and add few spots describing critical issues in the city: big air pollutants, neglected parts of the city, parts with traffic problems.</p> <p>After adding spots, we will discuss issues, how big are they, who is affected by them, how can individual person help.</p> <p>Teacher will prepare map and add students as contributors, guide students and emphasize some city problems.</p>
Traffic	<p>Resolving/reducing traffic problems in the city (google maps, present solution in Canva or Thinglink)</p> <p>This group will suggest traffic problems solutions – maybe to create more cycling routes in the city, no cars zone, rearrangement of traffic regulations, public bicycles...</p> <p>Teacher will prepare Google map on which students will draw routes that are problem and new traffic regulation.</p>
Make it better	<p>Redesign unused space in the city (photoshop, 3D modeling, present solution in Prezi) – different than others</p> <p>Three groups of students will take a photo of neglected parts of the city and prepare simulation on how they could look after repurposing – children playground, green island, recycling yard...</p>

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	Teacher demonstrate needed tools to students if needed.
Reduce pollution	<p>Reducing pollution: air pollution, light pollution, garbage (Coggle, present solutions as e-magazine)</p> <p>This group will prepare mind map about polluters, who do they affect, how can we minimize consequences – planting trees, more bins, more recycling spots, advertising on how to act...</p> <p>Teacher will prepare Coggle for the group.</p>
Day by day	<p>Preparing 30-day simple goals calendar (Canva, qr code generator)</p> <p>Prepare 30-day calendar with simple activities that will help each of us to behave more responsible – walk today, eat only vegetable, reduce water waste, prepare compost...</p> <p>Teacher will prepare Canva template.</p>
Publishing results	Preparing Wix site and publish all prepared materials – teacher and students together.

ASSESSMENT

Explain how you intend to assess your students for this project. How would you know if the learning objectives have been achieved?

Using all needed tools will prove they were developing their digital skills.

Final products will show their understanding of the problems.

Using existing data while exploring will improve their media literacy.

Suggesting solutions in their presentations will prove they worked on their critical thinking skills while trying to find cause-consequence connections.