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Addressing the Global Climate Crisis in Your Classroom – 2021 Edition

SUMMARY INFORMATION

Title: *Sustainability with 3Rs (Reduce, Reuse and Recycle) to Stop the Global Climate Crisis*

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Short description: The aim of the project is to create a zero-waste school environment. To ignite students' empathy, we should frame it as a personal issue. Changing their behaviours in order to reduce, reuse and recycle waste and landfill contribution to greenhouse gas increase affects students' environment. As a society students become aware of their possibility as a group to make a difference in the fight against climate change. And reflecting on their own consuming and what can be a sustainable consumption will help the economy.

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Subject	English, Chemistry, Biology, History, Geography
Curriculum integration	We have many functions about Reducing, Reusing and Recycling in our curriculum.
Age of students	<i>16-19</i>
Number of students	<i>Around 60 students</i>
Time frame/duration	4 weeks

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Learning objectives	The students will understand where most of their waste ends-up and its impact on climate change. They will evaluate their own footprint and weigh their own contribution to global warming. They will develop sustainable ideas for 3Rs easy doable classroom program. They will collectively plan and implement 3Rs program in the classroom. The students will share their experience with the rest of the school community. The students will become climate change ambassadors for sustainability too.
Resources and tools	<p>For raising attention: papers, glues, crayons, bulletin boards.</p> <p>For watching some videos: internet, smart board or mobile devices.</p> <p>To collect the waste materials we need recycled containers.</p> <p>To disseminate and inspire "Padlet"</p>
Expected results	<p>Better climate change awareness for the school community.</p> <p>Create a zero-waste environment.</p> <p>Sort out recycled materials.</p> <p>Use more recycled school items.</p> <p>Have nearly empty waste bins</p>

PROCEDURE

Work process

The project is a cross-curricular PBL. Students will learn through different learning environments: classroom, field trip, movie, hands-on workshops, YouTube videos. In the class, students will be in small groups, big groups or individual learning. The teachers' role also changes accordingly facilitator or they teach to the entire class.

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Activities

Name of activity	Procedure
<p>First week</p> <p>Raising awareness for climate change, 3Rs and Footprint</p>	<p>First of all, students must be very knowledgeable, aware and conscious about climate crisis to be able to act right. We have to be sure that they really understand, are aware of this universal issue and want to be a part of solution. For this reason they will discover waste materials around classes, school corridors, and also schoolyard. They will observe the waste materials. Take photos of them. As a discussion: Are we responsible with our garbage at school? We speak about what we have found in the schoolyard, in the canteen and how we contribute to greenhouse gas emission as a school.</p> <p>For this reason they should watch this video.</p> <p>https://youtu.be/ScX29WBJI3w</p> <p>https://youtu.be/nI7TI4EbdN8</p> <p>What is Recycling and Why Recycle? – Keep Montana Clean and Green...Think Before You Throw (recyclemontana.org)</p> <p>Students are calculating their own contribution to climate change Ecological Footprint Calculator Discuss and compare the results. How can I reduce my footprint?</p> <p>Ecological footprint calculators can be a good starting point for us to engage students in dialogue on climate change and environmental sustainability. According to the Global Footprint Network, the ecological footprint is one of the most widely used measures of humanity's effect upon the environment.</p> <p>After all, they will develop slogans and announce it at school.</p>

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<p>Second Week</p> <p>Raising awareness for the plastic pollution</p> <p>Learning the importance of trees</p>	<p>It's time for raising awareness about what the humanity is doing to the nature. To Understand the impact of throwing away plastic, they watch this movie.</p> <p>A Plastic Ocean - The Movie</p> <ul style="list-style-type: none"> - Discussion on what we have learnt about the movie. What was the most chocking? What behaviour could we change to lessen the amount of plastic in oceans? <p>Paper comes from trees - Stop Garbage (stopbasura.com)</p> <p>Discussion: What happens if we go on destroying the trees?</p> <p>After discussion students in groups will prepare posters for rising attention and they will hang these on bulletin boards in the class and in the corridors at school.</p>
<p>Third Week</p> <p>How can we recycle the waste?</p>	<ul style="list-style-type: none"> - Reduce, reuse, recycle (3Rs) - Brainstorming: all the group - What do they know about recycling, where it goes, how it is transformed? What can we reuse? - For arouse curiosity let's watch the video about What If We Stopped Recycling? - https://youtu.be/8fFJOzXxB54 - Introduction To Waste - Waste Management 2020 Environmental Science - LetsTute - https://youtu.be/ NkqwMitQ8o - Talk about the different options with one plastic object - Illustration of plastic recycling cycle. - In groups of 3 students discuss which of the 3R has the strongest impact on reducing Greenhouse gas. Youth in action: The Ocean Clean-up Project <p>The Ocean Clean-up</p>

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	<ul style="list-style-type: none"> - For inspiration, they will watch a video about Young Inventor Makes Bricks From Plastic Trash ; World Wide Waste https://youtu.be/iFcPqXxAUWM 6 Newspaper Craft... DIY Handmade Things !!! Reuse Ideas https://youtu.be/d3xfPKSSm9Q Another video about Recycled Paper Lifecycle - Collection of waste paper https://youtu.be/PTQCTnGoMXQ <p>After watching all these videos, students will try to reuse something (handmade things) waste-recycled material. To raise awareness around school, they will give them to their friends as a present in the school.</p>
<p>Last Week</p> <p>sorting out recycling</p>	<p>This project is a set of activities where students go explore videos and texts related to the theme of the zero-waste environment and climate change. They will also develop slogans, posters, a recycled hand-made gifts and a Padlet. 3Rs or zero-waste is a sustainability activity where students will pick up some recyclable garbage and sort out them.</p> <p>To sort out the waste materials, we need recycled bins. And to encourage the students, they will take their photos and share it on a padlet on the school webpage. And also the students who pay attention to recycling will get a gift from the principal of the school. This gift giving activity will be held every month until the students learn 3Rs a automatically.</p>

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ASSESSMENT

The students will demonstrate they achieved the learning objective if....

1. They can articulate how their wasting / recycling habits have an impact on climate change (Mind mapping).
2. Their portfolio contains one learning from each lesson/activity.
3. They are actively involved in the program implementation and related activities.
4. The classroom waste bin is empty or almost empty.
5. They use reusable containers, utensils and water bottles.
6. They use more sustainable school items.