

Inquiry Scenario Plan Design form for the promotion of Sustainability Citizenship



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Title:

Tackling Food Waste in our School

Short Description (Max 500 words):

In this series of lessons, students will explore the issue of food waste, starting with what it means to them personally, then zooming in on how it affects our school community. We'll investigate the causes of food waste by interviewing the school kitchen staff and designing a student-led survey to gather wider opinions and data.

Once we've identified key problem areas, we'll analyse the results and develop practical action plans. These will be shared with the school through a creative and informative assembly, aimed at raising awareness and inspiring positive change. The project encourages collaboration, critical thinking, and real-world problem solving, with the ultimate goal of reducing food waste both in school and at home.

Keywords (Up to 5):

Food Waste Canteen Sustainability

Information about the Implementation

Language of the students:

Portuguese

Age of the students:

☐ 9-12 ☒ 12-15 ☐ 15-18 ☐ 18+

Number of Lessons – Duration (per lesson):

Number of Lessons: 8 Duration per Lesson: 60

Is this activity a STEM Activity?

For which subject(s) is the activity usable? Is it an interdisciplinary activity?

Science ☒

Physics ☐

Chemistry ☐

Biology ☒

Geosciences ☐

Environmental ☒

Other ☐

Technology ☒

Engineering ☐

Arts ☒

Mathematics ☒

Information about the Scenario

Curriculum and country: Portugal 3º ciclo Natural Sciences

Link of the current activity to the curriculum: Sustainable development, Natural resources, circular economy

Country: Portugal Class: 8º Grade: 8º

Topic: Tackling Food Waste in our School

Learning Objectives (Max 100 words):

What do you want students to be able to know/understand/be able to do at the end of this lesson? (Please use action verbs.)

Understand what food waste is, and what waste of resources means

Collaborate with peers, teachers, and school community members to reduce food waste in school

Understand the impact of their choices

Develop skills in research, problem framing, analysis, and presentation of results.

Cultivate a sense of environmental stewardship and civic responsibility.

Resources / Materials (Max 100 words):

Which resources and materials (software, hardware) are needed?

Software	Hardware
Google Forms	iPads to apply the forms Scale to weigh the food waste

Use of School Infrastructure

How are school facilities and equipment used in your educational scenario?

School Infrastructure	School Materials
Classrooms Science Labs ICT rooms Art Rooms	Computers, Tablets Internet access Projectors Science Labs

School Canteen Auditorium for assemblies	
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Green competences:

Which green competences are covered by the activity?

Embodying Sustainable Values	Valuing Sustainability	<input checked="" type="checkbox"/>	Supporting Fairness	<input checked="" type="checkbox"/>	Promoting Nature	<input checked="" type="checkbox"/>
Embracing Complexity in Sustainability	Systems Thinking	<input type="checkbox"/>	Critical Thinking	<input checked="" type="checkbox"/>	Problem Framing	<input checked="" type="checkbox"/>
Envisioning Sustainable Futures	Futures Literacy	<input type="checkbox"/>	Adaptability	<input checked="" type="checkbox"/>	Exploratory Thinking	<input checked="" type="checkbox"/>
Acting for Sustainability	Political Agency	<input type="checkbox"/>	Collective Action	<input checked="" type="checkbox"/>	Individual Initiative	<input checked="" type="checkbox"/>

The definition of the following terms can be found in [GreenComp](#), which is translated into all European Union languages.

Working with the community

Which external actors will be involved within the framework of the training scenario?

Organisation Type	Organisation Name
NGOs (Non-Governmental Organisations)	Community centers and CASA
PTA (Parent-Teacher Association)	
Local business	
Other (please explain)	Canteen Staff are an outside company

How will the above-selected institutions help in the educational scenario?

NGO's are where we donate the food that hasn't been served, so they can donate to poor and homeless people.

The Other will help us in the scenario as their feedback on the progress is important, and also to pass on important messages we find.

Detailed activity description

Fill in the table with the subjects contained in your training scenario. The educational scenario should follow one of the following active teaching strategies: Inquiry-Based Learning, Challenge-Based Learning, or Place-Based Learning ([see here](#)).

Number and name of courses	Course content	Teaching hours
Lesson 1: Intro to Food Waste	Intro to food waste "What is food Waste for you?" Mind map in small groups Watch Tristan Stuart Ted talk https://www.tristramstuart.co.uk/ Brainstorm in groups about what food waste is by completing your initial brainstorm paper after watching the TED Talk.	1
Lesson 2: Food Waste in our school	Food Waste in our school From the students' perspective, what is already been done to tackle food waste in school and what can be improved. Interview the chef in the kitchen to listen to his perspective and understand what could be improved	1
Lesson 3: Creating Google Fom	Creating a google form to understand the root of the problem in our school. The Google form should be short, ask students to propose questions, and have them think about why they are asking that question and how they can use the answer to change attitudes. Apply the google form and weight the food waste at lunch time	1
Lesson 4: Analising data	Analising data and brainstorming action plans Different groups can present different content in the assembly for the whole school, or in a science celebration day, or go to other lessons to teach colleagues about their findings.	2

Lesson 5: Creating Assembly	<p>Creating Assembly with food waste related topics to make everyone aware of the problem.</p> <p>Possible topics for the assembly</p> <p>Food Waste Global Scale</p> <p>Food Waste in our School</p> <p>Ongoing projects in school</p> <p>What everyone can do to reduce FW in School</p> <p>What everyone can do to reduce Food Waste at home</p>	2
Lesson 6: Deliver Assembly	<p>Reharse and deliver assembly</p> <p>Maybe create lesson activities to raise environmental awareness?!</p>	1

Assessment (if any):

How will you assess learning (what could students say, make, create, do, etc)? What specific Assessment of Learning (AfL) and Assessment for Learning (AoL) strategies will you use to gather evidence of learning

Formative Assessment: Group discussions, project progress

Summative Assessment: Final projects and final presentations in the assembly

Group Assessment with peer and self-assessment, where students will assess group work and their contributions to the group.

Reflection/Evaluation (if any)

How will you evaluate if the scenario was successful?

We will apply the Google form and analyze data collected, hoping to see a change in knowledge/awareness about the topic and behavior by weighing the food waste again.

References (if any)

https://youtu.be/6_Jn3QfVOY8?si=s8lVJ6WyAbdxyHhM

More materials for students to check:

https://drive.google.com/drive/folders/14shKVPqsONijjDChNKkEyWLqwzsaCPB4?usp=drive_link

Sustainable Contact Details:

Name	Maria Pinto
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School Information:

School Name	St. Julian's School
City name	Cascais
Number of pupils and teachers	20 students and 4 teachers
How many students and teachers will be involved?	Everybody who has lunch in school

Annex

Feel free to add any more information and material you have, indicatively photos from the activity, constructions needed, or any handbook that may be available online.

More materials for students to check:

https://drive.google.com/drive/folders/14shKVPqsONijjDChNKkEyWLqwzsaCPB4?usp=drive_link