



Circular Organic Management

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Education Toolkit

By Exeo Lab

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- Household organic waste production and management
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- Organic waste reduction and reuse systems at school
- From the classroom to sustainable actions



Introduction

The educational toolkit is designed to support educators, students, and community organizations in understanding and addressing organic waste management. It provides both academic and practical resources to promote sustainable actions within households, schools, and communities. The toolkit will emphasize the life cycle of bio-waste, from its production to proper collection, prevention, and utilization. It serves as a bridge between education and community advocacy, helping individuals and groups to communicate with local authorities and engage in citizen actions aimed at improving organic waste behavior.

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- The life cycle of bio-waste. From production to collection through appropriate prevention and utilization
- Household organic waste production and management
- A family approach: Empowering students and parents through waste management education
- Organic waste reduction and reuse systems at school
- From the classroom to sustainable actions

| Type of resource | Link to resource | Resource description and why it is important |
|---------------------------------|--|---|
| <p><i>Academic articles</i></p> | <p>Resource 1</p> <p>https://www.mdpi.com/1660-4601/20/3/2140</p> | <p>Organic Waste Management in Rural Areas</p> <p>This resource examines the multifaceted issue of food waste in Romania, highlighting its ties to socio-economic challenges like high poverty rates and a struggling agricultural sector. It reveals that Romania wastes over 2.2 million tons of food annually, exacerbating economic and environmental problems. The study points out the urgent need for better data, more effective legislation, and practical solutions such as improved food donation systems and waste management practices. By addressing these issues, the resource provides critical insights for policymakers, researchers, and stakeholders aiming to reduce food waste and its negative impacts on both the economy and the environment.</p> |
| | <p>Resource 2</p> | <p>Household Organic Waste Separation and Recycling Practices in Romania</p> |



<https://rocesp.ro/wp-content/uploads/2022/02/V4-final-Food-Waste-Report.pdf>

The resource describes the collective efforts and data derived from the Food Banks in Romania, which have played a crucial role in reducing food waste and, in turn, minimizing greenhouse gas emissions. By collecting and redistributing food, these banks have saved the equivalent of 22,753 tons of CO₂ emissions, underscoring their positive environmental impact. The importance of this resource is twofold: it addresses both the



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| | | <p>immediate issue of food insecurity and the global challenge of reducing food waste, which contributes to up to 10% of greenhouse gas emissions. Supporting and expanding food banks through local authority and private sector collaboration is essential to ensure their sustainability and effectiveness. Further education and awareness campaigns, as well as continued research, are necessary to combat food waste across all levels of the supply chain and foster sustainable consumption practices.</p> |
| | <p>Resource 3 https://www.mdpi.com/2071-1050/15/8/6811</p> | <p>Effects of Romanian Student's Awareness and Needs Regarding Plastic Waste Management</p> <p>The resource described in the text is a study on Romanian students' awareness, behavior, and involvement in plastic waste management. It highlights the differences between students based on gender, field of study, and individual responsibility in addressing plastic pollution. The study emphasizes the role of universities in shaping students' attitudes toward environmental protection by providing relevant education, engaging them in practical activities, and encouraging research on bioplastics and sustainable alternatives. This resource is important because it underscores the need for improved educational efforts and</p> |



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| | | <p>institutional support to foster greater environmental responsibility, addressing a crucial issue of plastic waste management at both individual and societal levels.</p> |
| <p><i>Interactive digital resources: platforms, e-learning courses, games, websites</i></p> | <p>Resource 1</p> <p>https://kids.nationalgeographic.com/games/action-adventure/article/recycle-roundup-new</p> | <p>Recycle Roundup (National Geographic Kids)</p> <p>Recycle Roundup is an easy-to-play interactive game developed by National Geographic Kids. In this game, players are tasked with sorting waste into the correct bins: compost, recycling, and trash. It's simple and designed for younger audiences, making it perfect for students and families. The game teaches proper waste disposal habits while also highlighting the importance of reducing waste and recycling to protect the environment.</p> |
| | <p>Resource 2</p> <p>https://kids.nationalgeographic.com/games/quizzes/article/going-green-quiz</p> | <p>Going green</p> <p>The Going Green Quiz developed by National Geographic Kids is an engaging and educational online quiz designed to test and expand knowledge about environmental conservation and sustainable practices. The quiz features multiple-choice questions on various topics related to going green, such as recycling, reducing waste, conserving energy, and protecting wildlife. It provides instant feedback, allowing players to learn from their answers and deepen their understanding of eco-friendly</p> |



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| | | <p>practices.</p> <p>The Going Green Quiz is a valuable educational resource for fostering environmental awareness among children and young learners. By interacting with the quiz, users gain crucial knowledge about sustainable living and the impact of their daily choices on the planet. It encourages the adoption of green practices by making learning fun and accessible, helping to instill a sense of responsibility towards the environment from a young age. Engaging with this quiz can inspire students to implement eco-friendly habits at home and in their communities, contributing to a more sustainable future.</p> |
| | <p>Resource 3</p> <p>https://compostcrew.com/</p> | <p>Compost Learning Lab</p> <p>Compost Crew offers an interactive Compost Learning Lab that teaches students and families how to compost organic waste. The platform provides virtual lessons, games, and how-to guides for creating household compost systems. It also educates users about the environmental impact of food waste and helps families learn sustainable habits for managing organic waste at home.</p> |
| <p><i>Guide or concrete best practices</i></p> | <p>Resource 1</p> <p>https://apusenitransilvania.ro/2019/05/</p> | <p>The #NatureThanksYou (#Naturaîți mulțumește) movement began to gain momentum in 2019 when several young people from the Apuseni Mountains area, in the</p> |



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| | <p>02/natura-iti-multu meste/</p> <p>https://apusenitransilvania.ro/2019/05/07/apuseni-impaduriti/</p> | <p>territory of LAG Napoca Porolissum, decided to do something about the phenomenon of deforestation and waste, especially plastic, improperly dumped in nature. This case study will focus especially on afforestation actions whose initiators are two young entrepreneurs and environmental activities from Cluj area, Gabriel Iepure and Cosmin Zirbo, in partnership with Horia Apuseni Forestry Department and Mărișel Village Hall. We also mention here that Mărișel Village Hall is a public partner of our Association, while Cosmin Zirbo is also a private partner and beneficiary.</p> <p>The most significant event of the series #NatureThanksYou is Bring Back the Forest, in which over 400 participating volunteers of all ages managed to plant 10,000 seedlings on a wooded area of 5ha, and the norm of seedlings / ha was 2000. These are the concrete results of afforestation, but the movement itself is broader than that. We focus on how Gabriel and Cosmin managed to gather in a short time active volunteers at this event, through a massive promotion in the online environment, but also physically. They attracted local partners and sponsors to the event, involved members of the Forest Department and made extensive research on the territory, establishing the objectives of the action, the necessary raw material, managing the volunteers' work and maintaining</p> |
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their interest in getting involved in such an activity.

Another central element of the #NatureThanksYou events is the fact that the organizers managed to attract young people through a dedicated music program for them, at the end of the day's activities. Thus, DJs from all over Romania, as well as from abroad, joined this cause and became promoters of Bring Back the Forest themselves. These afterparties aimed to add an essential socializing element and a leisure time option especially for young people, considering that they are the most inclined to participate in such events. A small tradition of the #NatureThanksYou event series has been created, and these events turn a peripheral rural area into an open space for environmental actions, but also for tourists visiting the Mărișel area.

The best practices deriving from this case study are the involvement of the peripheral rural community in actions to combat climate change, waste thrown into nature inappropriately, unhealthy behaviors towards the environment in general. The involvement of young people in #NatureThanksYou activities demonstrates their interest in protecting the environment, having as an example the fervent activism of the coordinators, Cosmin Zirbo and Gabriel Iepure, young people themselves. The latter operate and



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| | | <p>live in a peripheral environment, and their passion for rural areas and nature runs deep. Their work is not just about initiating such events, but works beyond them. We can say that they have developed as local actors followed by the community and as an example for youth in rural areas.</p> |
| | <p>Resource 2</p> <p>https://www.intergeurope.eu/sites/default/files/2022-04/Biowaste%20challenge.pdf</p> | <p>Biowaste Challenge</p> <p>This guide is part of an initiative that addresses bio-waste management in several European countries, including Romania. It emphasizes sustainable practices for bio-waste reduction, collection, and reuse, targeting schools, communities, and local governments. The guide is instrumental in promoting education-based programs for reducing household waste and enabling community involvement. This guide plays a crucial role in educating students and their families on waste reduction, encouraging eco-friendly habits early in life. By promoting the sustainable use of organic waste, it supports environmental conservation and helps reduce landfill waste. Additionally, its community-centered approach empowers local participation, ensuring broader adoption of green practices.</p> |



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| <i>Academic articles</i> | Awareness of Household Food Waste Management with A Zero-Waste Concept: A Preliminary Study | <p>This resource focuses on assessing college students' understanding of domestic food waste management through an online questionnaire. Participants in the study had all attended a webinar on waste management, led by university representatives and environmental organizations. The findings revealed that students' knowledge of domestic food waste management varied widely, with some still perceiving it as a time-consuming and challenging task. This resource highlights how important it is to raise awareness about waste management, particularly food waste from the early stages of a person's life, starting from their own house. Lastly, it also highlights how essential the promotion and implementation of environmentally friendly practices at the school, university, government, and community levels is to improve people's quality of life.</p> |
| | Food waste matters - A systematic review of household food waste practices and their policy implications | <p>This resource takes a critical look at the reasons why private households have been identified as key contributors to food waste. This paper seeks to map the expanding but still limited academic landscape on consumer food waste by systematically reviewing empirical studies on food waste practices and identifying the factors that encourage or prevent food waste at the household level. The analysis highlights that food waste is a complex, multifaceted problem that cannot be attributed to a single cause, emphasizing the need for a more integrated, interdisciplinary Approach.</p> |



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| | | connected to household practices and ultimately develop more effective food waste prevention strategies. |
| <i>Interactive digital resources: platforms, e-learning courses, games, websites</i> | Say NO to food waste! | <u>A guide to reducing household food waste</u> The main goal of this guide is to help families understand the steps they can take to reduce food waste at home. It covers proper storage methods for various food categories, tips for reusing leftovers through a variety of recipes, portion control, and how to interpret date labels. Additionally, the guide includes a section on the proper care of household livestock and poultry, as well as two supplementary sections: one on nutrition and the healthy eating plate, and another on home food processing, complete with recipes for different products. |
| | Food and the circular economy - deep dive | This website from the Ellen MacArthur Foundation explores the relationship between food systems and the circular economy. It emphasizes how rethinking food production, consumption, and waste management can create more sustainable systems that benefit the environment, health, and economy. This resource is insightful as it delves into strategies to reduce waste, regenerate natural systems, and innovate food processes for a circular economy, reducing dependency on finite resources. |
| | Introduction to Worm Farming | This course explores the fascinating world of worm farming, or vermicomposting, an eco-friendly way to recycle organic waste and enrich the soil using earthworms. It is an interesting |



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| | | and fun introductory course for the students which covers how to establish and maintain a worm farm, while also introducing various composting methods. |
| <i>Guide or concrete best practices</i> | Toolkit to reduce consumer food waste | This toolkit is designed to help reduce consumer food waste. It includes practical tools, video tutorials, and resources developed by the European Consumer Food Waste Forum. The toolkit helps users plan actions, measure impacts, and tailor interventions for specific consumer groups to minimize food waste. This toolkit is important as it focuses on sustainable consumption and waste prevention practices and also offers recommendations for policymakers, businesses, and schools. |
| | Boroume | Boroume ("We Can") is a non-profit organization with the aim to reduce food waste and food insecurity in Greece. They run programs to save food from markets, fields, and donations, redistributing it to charities across Greece. They also promote food waste awareness, offer educational initiatives, and support families in need with supermarket vouchers. Their mission is to create a society where food waste is minimized, and volunteering is embraced. |



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| <i>Academic articles</i> | Resource 1 https://drive.google.com/file/d/1EIDgTXVIGs8oEBF07hl3r2jz1Jx3KZsj/view?usp=drive_link | <p>This study focuses on evaluating waste management practices, particularly zero waste applications, in various educational institutions across Turkey. It explores different types of institutions including an engineering faculty, a vocational school, a high school, and a primary school. The goal was to assess waste generation rates, identify recycling practices, and gather student perspectives on zero waste management through surveys.</p> <p>Key findings include:</p> <ul style="list-style-type: none">• The total waste generated in the engineering faculty was found to be 184 kg per day, but only 27 kg per day was recycled.• Waste generation rates varied significantly across institutions: primary school (17.6 g per person per day), high school (32.3 g per person per day), vocational school (93.7 g per person per day), and engineering faculty (113 g per person per day). <p>One critical insight from the study is the importance of proper training and awareness about zero waste principles. It highlights that effective waste management requires careful planning, including reducing trash cans and properly placing zero waste sets.</p> <p>The research underscores the role educational institutions can play in fostering sustainable waste management practices. By</p> |



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| | | <p>quantifying waste generation and identifying gaps in recycling efforts, the study reveals the need for targeted awareness campaigns and better infrastructure to promote zero waste. Educational institutions, as microcosms of society, offer an excellent opportunity to instill sustainable practices in students, shaping future behaviors and reducing environmental impact.</p> |
| | <p>https://drive.google.com/file/d/1SJc-BCtcAOIDOgATSAKr0Dpcn2-vAVKU/view?usp=drive_link</p> | <p>This research examines elementary schools in Istanbul that are part of the Eco-Schools International Programme, which promotes environmental management systems in schools through the European Union-supported initiative. Established in 1994, the program aligns with ISO 14001/EMAS standards and aims to introduce sustainable practices within primary schools. The study specifically focuses on how schools in both the Asian and European parts of Istanbul manage waste and foster sustainability through environmental education. It highlights the role of elementary schools in shaping sustainable practices for future generations. By integrating waste management and sustainability into education, schools serve as powerful platforms for instilling environmental responsibility in children at a young age. The study demonstrates how systematic waste management in schools can have both environmental and educational</p> |



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| | | <p>benefits, reinforcing the importance of reducing waste and promoting recycling as part of everyday learning. This approach helps raise awareness among students and contributes to the creation of environmentally conscious citizens.</p> <p>Furthermore, the study stresses that by making sustainable waste management part of the curriculum, schools not only reduce their environmental footprint but also contribute significantly to the broader goal of environmental education, preparing students to adopt eco-friendly habits in their personal lives and future careers.</p> |
| | <p>https://drive.google.com/file/d/14YY2DkL8NlcYZ33FbjO2vSI7j8XFZN4G/view?usp=drive link</p> | <p>This research provides an overview of Turkey's solid waste management practices, highlighting both advancements and challenges. As an economically developing country, Turkey has implemented integrated solid waste management systems in metropolitan areas like Istanbul and Izmit (Kocaeli). These systems, which include modern facilities for handling waste, are more effective in urban settings. However, rural and scattered regional settlements face difficulties due to financial constraints and resistance from nearby communities regarding waste storage sites.</p> <p>The study suggests that small-scale compact waste management systems with a focus on materials recycling and composting may be</p> |



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| | | <p>more suitable alternatives for these smaller, rural settlements. This is particularly important since a significant portion of municipal waste in Turkey is organic, and approximately a quarter is recyclable, with paper and cardboard being the largest constituents. However, waste composition varies depending on the source and collection point, which underscores the need for tailored waste management strategies.</p> <p>The research highlights the growing concern over solid waste disposal in Turkey, emphasizing the need for modern and sustainable waste management practices, especially in non-metropolitan areas. By focusing on composting and recycling, the study offers strategies to reduce the volume of waste, promote resource recovery, and minimize environmental degradation. This study is critical for shaping Turkey's future waste management strategies, balancing environmental sustainability with economic development.</p> |
| <p><i>Interactive digital resources: platforms, e-learning courses, games, websites</i></p> | <p>https://www.epa.gov/international-cooperation/solid-waste-management-toolkit-developing-countries</p> | <p>Eco-Schools Programme in Turkey</p> <p>This toolkit includes interactive learning modules related to solid waste management, focusing on topics such as organic waste management, waste</p> |



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| | | <p>characterization, and recycling. It is accessible in multiple languages, including Turkish, and offers comprehensive training on sustainable waste practices.</p> |
| | <p>https://www.futurelearn.com/courses/from-waste-to-value</p> | <p>How to Tackle Food Waste</p> <p>On this course, you'll explore how you - as a consumer - can act and inspire others to reduce food waste effectively and sustainably. You'll learn what food waste is, and why it matters, and gain practical information on how to be an agent of change both personally and politically.</p> <p>You'll discover how the circular economy provides a framework for discovering solutions to this issue, and hear from companies that are making a difference.</p> |
| | <p>https://www3.epa.gov/recyclecity/</p> | <p>Recycle City</p> <p>An interactive game where users can explore how residents reduce waste and conserve energy. This resource is aimed at younger audiences. In Recycle City, players explore a virtual city where they can see the impact of waste management practices on the environment. The game provides various scenarios where users can learn how residents can reduce waste, recycle effectively, and conserve resources. Players can navigate through different areas of the city, making decisions that</p> |



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| | | influence waste generation and management. |
| | https://www.wastopia.org | Wastopia - An engaging game that teaches users about waste separation and encourages sustainable practices. Players navigate through a colorful world while learning about different types of waste and recycling methods. Wastopia is an interactive digital game designed to educate players about waste management and recycling practices in a fun and engaging way. The game immerses players in a colorful world where they navigate various challenges related to waste disposal, recycling, and sustainability. Wastopia emphasizes the importance of proper waste separation and encourages players to adopt sustainable habits. Players learn about different types of waste and how to dispose of them responsibly. |
| <i>Guide or concrete best practices</i> | https://www.ecomasteryproject.com/what-creative-ways-can-educational-institutions-reduce-waste/#google_vignette | The Ecomastery Project is an initiative focused on enhancing environmental sustainability in educational settings, particularly in schools. It aims to empower students and staff to engage in sustainable practices through a structured program that combines education, practical activities, and community involvement. |



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| | <p>Guide</p> | <p>Guidelines for Organic Waste Management in Secondary Schools</p> <p>By implementing these guidelines, teachers can create a culture of sustainability within secondary schools that not only addresses organic waste management but also promotes environmental stewardship among students. This approach equips students with the knowledge and skills to make informed decisions regarding waste and fosters a sense of responsibility for their environment.</p> <p>Establish a Waste Management Team</p> <p>Form a dedicated team of students and staff members to oversee waste management initiatives. This team can lead campaigns, organize activities, and monitor progress.</p> <p>Educate the School Community</p> <p>Conduct workshops and seminars on the importance of organic waste management. Discuss the impact of food waste on the environment and the benefits of composting. Utilize engaging materials such as presentations, videos, and interactive discussions to foster understanding and participation.</p> <p>Set Up Composting Systems</p> <p>Implement a composting program in the school. Provide clearly labeled</p> |
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| | | <p>compost bins in cafeterias and common areas for organic waste disposal. Ensure students and staff are trained on what can and cannot be composted to minimize contamination.</p> <p>Monitor Food Waste in Cafeterias</p> <p>Regularly assess food waste generated in the school cafeteria. Conduct waste audits to understand the volume and type of waste produced. Use the data collected to adjust portion sizes, meal offerings, and encourage students to take only what they will eat.</p> <p>Engage Students Through Projects</p> <p>Encourage student-led projects focused on sustainability, such as creating posters about composting or organizing clean-up days. Involve students in hands-on activities, such as maintaining the compost bin or establishing a school garden that utilizes composted materials</p> <p>Implement a Food Recovery Program</p> <p>Collaborate with local food banks or community organizations to donate surplus food that is safe for consumption. Educate students about the importance of food recovery and its role in reducing waste and supporting the community</p> <p>Promote Eco-Friendly Practices</p> |
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| | | <p>Encourage students to use reusable containers and utensils to reduce waste from packaging. Integrate lessons on sustainability and organic waste management into the curriculum, using real-world examples and local initiatives.</p> <p>Evaluate and Celebrate Progress</p> <p>Regularly assess the effectiveness of waste management practices and adjust strategies as needed. Solicit feedback from students and staff. Celebrate achievements, such as reaching waste reduction goals or successful composting efforts, to maintain enthusiasm and commitment.</p> |
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Type of resource

Link to resource

Resource description and why it is important

https://www.researchgate.net/publication/368309736_Organic_Waste_Management_in_Educational_Institutions_A_Systematic_Review

Organic Waste Management in Educational Institutions: A Systematic Review

This review article systematically analyses how schools can effectively implement sustainable organic waste management, including composting and recycling. It highlights the role of educational programmes that teach students about environmental practices. This article is essential for your assignment as it provides a comprehensive insight into the current methods and challenges that schools face when trying to implement sustainable waste reduction strategies.

<https://www.tandfonline.com/doi/abs/10.1080/13504509.2021.2019138>

A comparison of waste education in schools and colleges across five European cities

The paper compares waste education programmes in schools and colleges in five European cities, providing a deep understanding of the different approaches to education on sustainable practices. It is relevant for your assignment as it allows you to compare the effectiveness of different educational approaches across Europe, which can help you to make concrete recommendations for school programmes.

<https://www.tandfonline.com/doi/abs/10.1080/13504622.2022.2099531>

The science behind composting: How household biowaste management practices shape young children's understanding of organic matter decomposition

This article explores how household bio-waste management practices, such as composting, influence children's understanding of organic



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| | | <p>matter decomposition. It is relevant to your thesis because it links the scientific aspects of composting with the education of young children, which is useful in integrating scientific concepts into the school curriculum.</p> |
| | <p>https://www.sciencedirect.com/science/article/abs/pii/S0921344906000152</p> | <p>A waste management school approach towards sustainability</p> <p>This article presents an integrated approach to waste management in schools that promotes sustainable practices. It highlights the importance of involving all stakeholders, including students, teachers and the local community, in developing sustainable environmental solutions. This article helps you understand how schools can play a leading role in promoting sustainable development through education.</p> |
| | <p>https://publikaciotar.uni-bge.hu/id/eprint/1878/</p> | <p>Trash to Treasure: How indoor food waste and composting projects can gain momentum in Educational institutions</p> <p>This article explores how composting projects with in-house food processing can gain momentum in educational institutions. It is important because it offers practical solutions for introducing composting in schools, while exploring the challenges and benefits of such projects. This study gives you an insight into the implementation of concrete projects that turn waste into valuable resources.</p> |



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| <i>Interactive digital resources: platforms, e-learning courses, games, websites</i> | https://compostcrew.com/ | Compost Crew platform The Compost Crew platform offers an interactive learning experience on composting, which is key to encouraging students and families to learn how to compost organic waste properly. The platform contains guides, games and instructions that make it easy to set up a composting system at home or school level. It is important because it helps students to adopt sustainable habits that reduce waste. |
| | https://kids.nationalgeographic.com/games/quizzes/article/going-green-quiz | Quiz Going green This quiz is a fun and educational way for students to test their knowledge on sustainable practices such as recycling, reducing energy consumption and protecting nature. It is an important resource as it encourages students to reflect on their daily habits and impact on the environment and offers immediate feedback. |
| | https://rhodeislandresource.recyclegame/ | Ready, Set, Sort Rhode Islands Waste Sorting game This game teaches users how to properly separate waste through an interactive sorting experience. Although the game is more suitable for younger learners, it is still useful as it emphasises the importance of proper waste separation and recycling, which is key to sustainable resource management. |
| | https://www.eco-schools.org.uk/count-your-carbon/ | Eco school It is a more balanced interactive platform offering online courses and modules on sustainable development. It offers detailed instructions and practical exercises |



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| | | suitable for older learners. The platform emphasises the integration of sustainable practices into everyday school and family life. |
| <i>Guide or concrete best practices</i> | https://www.interreg.eu/sites/default/files/2022-04/Biowaste%20challenge.pdf | The biowaste management challenge The STREFOWA project offers best practices for organic waste management in educational institutions. This guide provides concrete examples of how schools can set up and improve their composting and recycling programmes. It also highlights educational initiatives to reduce waste and involve students in sustainable projects. |
| | https://programme2014-20.interreg-central.eu/Content.Node/STREFOWA/D.T.12.1-Best-Practice-report-final-v3-2.pdf | DEFINITION OF BEST PRACTICE ACTIVITIES IN FOOD WASTE PREVENTION AND MANAGEMENT This guide provides detailed guidelines for educational institutions wishing to reduce bio-waste through recycling and composting. It offers concrete solutions on how schools can integrate comprehensive organic waste management measures to reduce their ecological footprint. The guide is useful because it is based on practical examples from European countries. |

| Type of resource | Link to resource | Resource description and why it is important |
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| <p><i>Academic articles</i></p> | <p>Resource 1</p> <p>https://www.tandfonline.com/doi/abs/10.1080/13504622.2022.2099531</p> | <p>The science behind composting: How household biowaste management practices shape young children’s understanding of organic matter decomposition</p> <p>This study explores how schools can educate students on sustainable organic waste management and waste reduction by promoting composting.</p> |
| | <p>Resource 2</p> <p>https://www.sciencedirect.com/science/article/abs/pii/S0921344906000152</p> | <p>A waste management school approach towards sustainability</p> <p>An overview of anaerobic digestion and energy recovery from organic waste. The importance of proper waste management to reduce pollution and produce biogas is explored.</p> |
| | <p>Resource 3</p> <p>https://www.sciencedirect.com/science/article/pii/S266790823000563</p> | <p>Life cycle assessment of biowaste treatment – Considering uncertainties in emission factors</p> <p>A comparative analysis of composting and anaerobic digestion as treatments for organic waste, with a focus on environmental benefits and greenhouse gas emissions.</p> |
| <p><i>Interactive digital resources: platforms, e-learning courses, games, websites</i></p> | <p>Resource 1</p> <p>https://kidsgardeni.ng.org/resources/gardening-basics-worm-composting/</p> | <p>Worm Composting for Kids</p> <p>An educational site introducing children to vermicomposting (composting with worms), with tutorials and practical activities to implement the system in schools or at home.</p> |



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| | <p>Resource 2</p> <p>https://www.compostcalculator.org/</p> | <p>Compostar calculator</p> <p>An interactive tool that helps calculate the correct ratio of green to brown materials in compost, ensuring proper decomposition. Useful for students and teachers.</p> |
| | <p>Resource 3</p> <p>https://www.environmentandsociety.org/mml/garbage-dreams</p> | <p>Garbage Dreams</p> <p>An interactive game that follows the lives of a group of young people in Egypt who recycle waste to earn a living. The game teaches players the value of recycling and waste management.</p> |
| <p><i>Guide or concrete best practices</i></p> | <p>Resource 1</p> <p>chrome-extension://efaidnbmnnnibpcaipcgld/efindmkaj/https://zerowasteurope.eu/wp-content/uploads/2019/04/zero_waste_europe_fertile_auro_guide_community-composting_en.pdf</p> | <p>Community-Based Composting Guide</p> <p>A detailed guide explaining how local communities can organise collective composting systems to reduce organic waste and promote sustainability.</p> |
| | <p>Resource 2</p> <p>https://www.epa.gov/recycle/composting-home</p> | <p>Household Organic Waste Composting: A Step-by-Step Guide</p> <p>A practical guide teaching families and schools how to implement a home composting system, including tips for reducing food waste and using compost in the garden.</p> |