

Teachers guide for learning activity Let`s extend the lifetime of textile waste

Module Sustainable Consumer behaviour, 2.5 ECTS

	Examples Activity		
Title	Let`s extend the lifetime of textile waste		
Relevant SustainComp modules	Sustainable Consumer behaviour		
Pre-requisites	None		
Introduction	In this learning activity, students will learn about different ways textile waste can be used and the importance of using textiles responsibly to protect the planet.		
Learning goals	After this learning activity, students will develop skills to reuse textile waste, know some natural dyes to dye, paint, and print on clothing, and develop critical thinking about the irresponsible use of textiles.		
Pedagogical principle for the activity	Active learning Problem solving Critical thinking and communication Group works and collaboration		
Digital facilitation	COIL (optional)		
Subject specific terms	Repair and reuse unusable clothing, natural dyes, chemistry in textile production, environmental pollution, responsible consumer behaviour		
Use of time (total)	225 min (approx. 5x45min)		
Preparation and equipment	Pen and paper sheets - if the activity is not in digital version Students visit garbage dump – they research how many clothes are collected there, what they do with these clothes, etc.		
Implementation	Schedule	Time	How
	Part 1 Introduction	30min	Each student thinks about these questions. The Mentimeter programme is used to create questionar (website link: https://www.mentimeter.com/). When students see the questions on their computers/cell

			<p>phones, they answer them. All answers can be seen in the presentation.</p> <p>Questions:</p> <ul style="list-style-type: none"> - What do you do with unusable clothes? - How many pieces of clothing do you throw away each year? - How does textile waste affect our environment? - How can we extend the life of a textile product?
	Part 2 Group work (COIL)	15min	<p>Students from the different country divided into group and research about:</p> <ul style="list-style-type: none"> - how irresponsible consumerism affects our environment and people's lives (they research thus: Pollution of air, water, soil with chemicals, pesticides, etc; human health – allergic reactions, life of organisms – mutation, extinction...). - Why is important to reduce and reuse old textile products? On the Internet they find some ideas how to make some innovative textile products from old unusable textiles. -
	Part 3 Filed work	135 min	<p>Students from locally country divided into group and visit the largest landfill in their country and research how many pounds of textile waste are collected in landfills, what types of textiles are most collected, what is done with this textile waste, etc.</p> <p>Then each student made a new textile product from old clothes (they used a different type of stitching). Students develop craft skills and creativity. Students made innovative textile products that can be used in daily life (e.g. pet beds, shopping bags, board games, pillows, costumes for Carnivals, etc.).</p> <p>In the end students design a leaflet about how we can extend the life of old textiles. The leaflet can be designed with the program Canva (website link: https://www.canva.com/free/)</p>
	Part 4 Digital meeting (COIL)	25min	<p>Based on the conclusions and presentations of the main results students present their new textile products and explain how these products can be used in daily life. They present some guidelines for a more responsible use of textile waste.</p>
	Part 5 Closure	20 min	<p>Wrap up and reflections.</p>

Recommended	1 hour lector on responsible act with textile	Lecture on the impact of responsible use of textiles – pollution, to raise awareness on how to repair old textiles with simple natural methods and transform them into new innovative products.
Evaluation of the activity	Formative	Discussion.
	Summative	Presentation of group work.
<p>Literature:</p> <p>Ahmad, R. (29.5.2023). <i>Why is it Important to reuse and repurpose old Clothes?</i> EcoMENA – Echoing sustainability in Mena. https://www.ecomena.org/old-clothes/</p> <p>Crozier, M. (3.4.2019). <i>True Colors: Creating natural Food Dyes at home</i>. Edible LA. https://www.ediblela.com/news/natural-food-dyes</p> <p>Dinis Marques idr. (2019). From waste to fashion – a fashion upcycling contest. <i>ScienceDirect</i>, 84(2019), 1063-1068. https://doi.org/10.1016/j.procir.2019.04.217</p> <p>Khan, R. I. (2021). Different types of vegetable dyes. <i>Textile Learner</i>. https://textilelearner.net/different-types-of-vegetable-dyes/</p> <p><i>Textile Industry: Environmental Impact and regulations. (b.d.)</i>. ClimateSeed. https://climateseed.com/blog/secteur-du-textile-impact-environnemental-et-r%C3%A9glementation</p> <p>Tounsadi idr. (2020). Impact of chemical substances used in textile industry on the employee`s health: Epidemiological study. <i>Ecotoxicology and Environmental Safety</i> 197(2020), 1-7. https://doi.org/10.1016/j.ecoenv.2020.110594</p> <p>Zhou idr. (2021). Environmental perspectives of textile waste, environmental pollution and recycling. <i>Environmental Technology Reviwes</i>, 11(1), 62-71. https://doi.org/10.1080/21622515.2021.2017000</p>		

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