

Circular Economy and Consumption of Goods

1. Preparing the Lesson Plan

Brief description	<p>The lesson objective is meant to develop a positive attitude towards the environment and respect for nature.</p> <p>A circular economy is based on the principles of designing out waste and pollution, keeping products and materials in use, and regenerating natural systems. The new concept replaces the old concept of linear economy which was based on the concepts: „use-produce-throw away”.</p>
Age group	Lower Secondary (11 to 14 years)
Learning space	The activity can take place in the classroom.
Learning Objectives	<p>O1. – Understand that every worn-out object can be reused and/or recycled ;</p> <p>O2. – Establishing the way of reorganising consumption of goods in order to produce”zero waste” in collecting, storage, transport of household waste;</p> <p>O3. – Raise awareness towards the importance of circular economy;</p> <p>O4. – Become aware that daily waste can turn into useful resources by reuse and recycling ;</p>
Materials	<ul style="list-style-type: none">- worksheets- educational videos- computer- smart board- flipchart- post-it- markers.

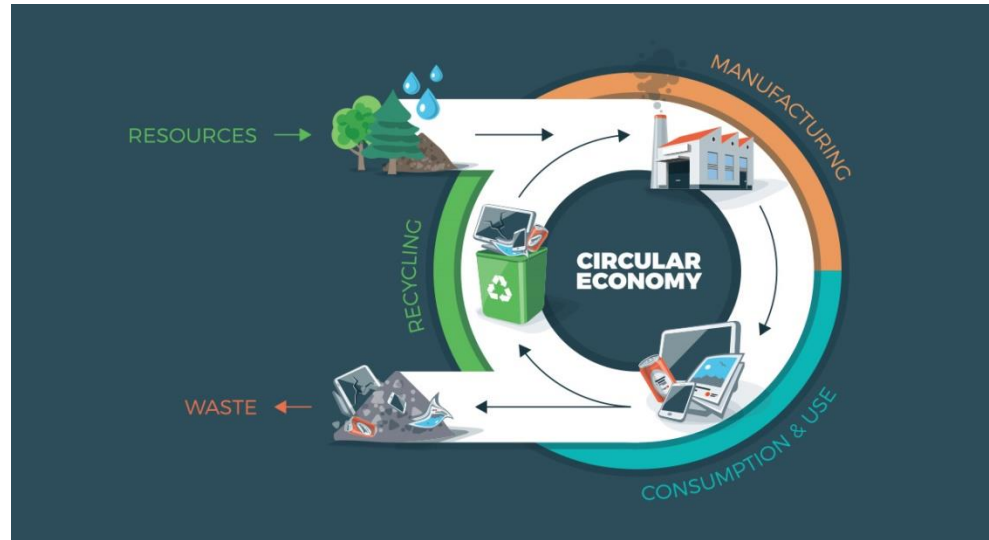
2. Developing the Lesson Plan

Method	Details and description	Time
1. Warming up: raise awareness towards the circular economy issue.	- students watch a short video in order to understand the concept of the circular economy: https://www.youtube.com/watch?v=zCRKvDyyHmI	5 min
2. Announcing the topic and the objectives.	The topic of the lesson is: Circular economy and consumption of goods O1. – Understand that every worn-out object can be reused and/or recycled ; O2. – Establishing the way of reorganising consumption of goods in order to produce”zero waste” in collecting, storage, transport of household waste; O3. – Raise awareness towards the importance of circular economy; O4. – Become aware that daily waste can turn into useful resources by reuse and recycling ;	2 min
3. Presentation of content	<ul style="list-style-type: none"> • Explain the concept of circular economy which is based on three principles: <ul style="list-style-type: none"> ➤ Design out waste and pollution ➤ Keep products and materials in use ➤ Regenerate natural systems • Explaining the concept of Circular Economy and how society can Re-think progress The students watch a short video: “Fashion industry & Circular Economy” (5:45mins) https://www.youtube.com/watch?v=65zR2nU0sBU This activity introduces the concept of Circular Economy and draws attention to the importance of overcoming the approach of linear economy. Students will be given an object and they will brainstorm on how they can apply the principles of Circular Economy using the natural systems as an example.	15 min

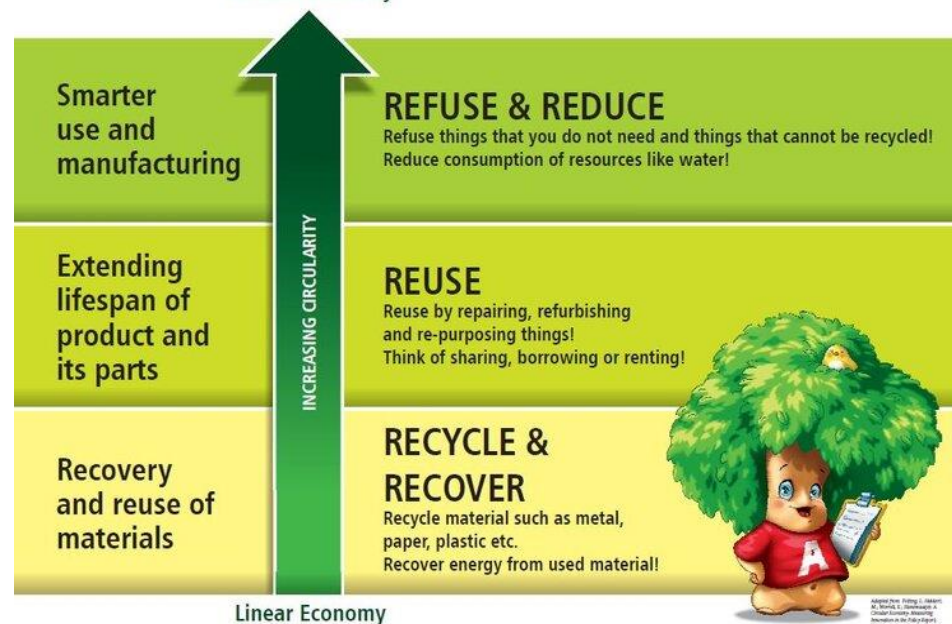
4. Consolidation	<p>Task: Students are divided into groups and are asked to present briefly different objects according to the principles of Circular and Linear Economy.</p> <p>Instructions:</p> <p>1. The students watch two videos:</p> <ul style="list-style-type: none"> ➤ „The life cycle of a T-shirt - Angel Chang” (6:03mins) https://www.youtube.com/watch?v=BiSYoeqb_VY ➤ “Circular economy Electronics” (1:27) https://www.youtube.com/watch?v=1uUKipMIK7c <p>2. Each group receives an object (a T-shirt, jeans, mobile phone) and are shown on the smart board the worksheet Linear Economy. Students will go through the life cycle of the given object and write down every stage of linear economy.</p> <p>3. The procedure is repeated using the worksheet Circular Economy.</p> <p>4. Each group will present to the others their findings for the object received.</p>	20 min
5. Giving feed-back	<ul style="list-style-type: none"> - The teacher checks the solving of the task and gives feedback to the students. - The students watch a film about battery recycling: “Johnson Controls Battery Recycling” (1:19) https://www.youtube.com/watch?v=PWI3hbUuigM 	5 min
6. Assessment and recommendations	<ul style="list-style-type: none"> - The teacher makes comments regarding the activities that took place and asks for students’ opinion about the lesson. If it is the case, the teacher writes down possible suggestions. 	3 min

3. Follow up of the Lesson Plan

Follow material and/or homework	Choose an object that you have at home that needs upgrading. What could you do to make sure that it will never become waste ?
Evaluation	Students will be asked to suggest a circular economy plan in their school.



Circular Economy



Linear Economy

Adapted from: Polking, J., Jackson, M., & Searles, L. (2015). Introduction to Circular Economy. Available at: <http://www.circular-economy.com/>. Accessed 10/10/2017.

SURVEY

Name:

Class:

Date:

1. How many clothes do you have in your wardrobe in total? Remember to count socks (as a pair!), swimwear and underwear. Write the tally below.
2. How many pairs of jeans do you own?
3. Do you own any items that you wear every week? Give examples of what they are:
4. Do you own any items that you rarely or never wear? Give examples of why you don't wear them e.g. too small, don't like, too warm etc:
5. Do you own any items that were not bought new? (For example, hand-me-downs from your siblings, or items purchased from a secondhand shop.) How many? Where are they from?