Learning Tool Code	Title
SDGfP goal 12	Responsible Consumption and Production

Objectives

After the lesson students will be able to:

- understand the meaning of the terms consumption and production
- name and recognize different types of waste such as household / municipal waste, hazardous waste, radioactive waste, wastewater, etc.
- familiarize themselves with various ways of sorting different types of waste
- research positive examples of reusing and recycling materials instead of disregarding them
- apply critical thinking to offer suggestions on how to effectively decrease their own material footprint
- draw parallels and respond positively to the targets and indicators set by the SDGfP goal 12

Activity details

Materials \rightarrow see Annex

Duration: 180 – 225 minutes

Class size: 20 – 28 students (6th grade, age 12)

Instructions

LESSON 1

Introduction / Engaging the students (10 – 15 mins)

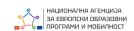
The teacher starts by asking questions such as What's the last thing you've thrown away? or What type of materials do we discard most frequently? in order to motivate them so they would engage in a conversation with him/her. A follow up question may include What about kitchen appliances? Do we even try to repair them nowadays?

After the first round of answers the teacher moves on to mention waste sorting with questions such as *How do we separate materials we don't need?* and *What do the colored garbage cans indicate?* A follow up question may include *What materials do the different colors correspond to?*

The teacher then focuses on the material footprint of each person with questions like *Is* there a way to reuse some of the materials differently? and What materials are the most suitable for reuse?

The teacher then brings the introduction to a close by administering a blank table to the students with the instructions to answer the questions and fill out the table using the Internet:











What are <i>sustainable cons</i>	ımption and production? Give	e some
examples:		
What are the planet's <i>natur</i>	al resources? Classify the ma	in ones
and give some examples:		

Research (5 – 10 mins)

After the students finish writing in their answers, the teacher calls upon a couple of them to read what they have found. Other students can chime in with additional comments or a brief discussion.

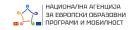
Finally, the teacher introduces one of the goals of today's lesson by stating *Today you* will make a presentation where you will distinguish between the main types of waste we generate and propose ways on how to reduce your own material footprint.

Preparation for the assignment (15 – 20 mins)

The teacher divides the students into pairs or groups of three and gives them instructions on how a quality presentation should be made (the instructions mostly include the accepted font size, the appropriate number of rows, line spacing and the position of the text and images). The teacher also gives them some examples of the titles they should use which may include:

- What is waste
- The main waste types (waste paper and cardboard, waste plastic, glass waste, metallic waste, batteries, electrical equipment, difficult household waste, etc.)
- Preventing waste generation
- Reusing
- Sorting and recycling











The teacher lets them know their presentation should include a quiz at the end and that the best pair or group will present their work to the rest of the class two weeks after. After this the students may begin their work.

Pair / group work (45 mins)

The students use prior knowledge to come up with the ideas and build their presentation. The teacher in the meantime shifts from group to group and gives advice on how to approach a certain topic the students chose or to help build a certain slide. The teacher takes note of the time and 5 minutes before the lesson ends reminds them to save their work so they can continue the week after.

LESSON 2

Introduction (5 – 10 mins)

The teacher asks the students if they remember the most important topics from the week before and reminds them what they are doing and why.

The teacher then checks the pairs / groups from the previous week and lets them return to their saved work and continue with the presentation.

Pair / group work (35 mins)

The teacher again shifts from group to group and gives advice on how to fine tune the slides and put the finishing touches on the presentation.

Instructions on creating the quiz (5 – 10 mins)

The teacher asks the students if they remember how to build an interactive quiz inside a presentation and reminds them of the structure and how the slides should be arranged. The teacher also shows the students how the correct and wrong answers are linked with the corresponding slides.

Pair / group work (30 mins)

The students use prior knowledge to design the appropriate questions and the slides used for giving feedback. The teacher in the meantime shifts from group to group and gives advice on how to formulate certain questions and check if the slides are linked correctly.

Conclusion (5 mins)

The teacher takes note of the time and 5 minutes before the lesson ends reminds everyone to save their work and also determines which pair / group is the best. The pair / group in question is given additional instructions on how to deliver the presentation the week after.











LESSON 3

Introduction (5 – 10 mins)

The teacher asks the students if they remember the most important topics from the previous two weeks and reminds them that their colleagues have prepared a presentation for them. He/she instructs them to actively listen and jot down any potential question they might have.

Pair / group presentation (20 - 25 mins)

The best pair / group present their work to the rest of the class. They use the quiz at the end of a presentation as a fun way to check if their colleagues have been paying attention.

Conclusion (10 mins)

The teacher asks several students from the rest of the class to read their questions for the group. He/she also asks them to comment on the presentation and the quiz, thanks the best pair /group and reminds everyone of the most important topics they have learned in the previous three weeks.

Tips for the facilitator

The students should have prior knowledge of building a quality presentation, designing their own master slide theme and linking appropriate slides for the quiz portion of the presentation.

See Annex for further details.

Debriefing

The teacher can check how much the students remember about the topic by creating a questionnaire based on the presentation they watched. The activity can be planned for the week after the presentation, but it is completely optional.

Follow-up/Inspiration for the future

The students can use the knowledge acquired from the previous three lessons to create a poster or an infographic for their Art class.

References/Further reading

http://idop.hr/hr/dop-trendovi/ciljevi-odrzivog-razvoja/o-ciljevima-odrzivog-razvoja-i-primjeri-

dobre-prakse/sdg12-cilj-odrzivog-razvoja-12-odgovorna-potrosnja-i-proizvodnja/

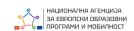
https://www.un.org/sustainabledevelopment/sustainable-consumption-production/

https://unstats.un.org/sdgs/report/2019/goal-12/

https://sdgs.un.org/goals/goal12

https://en.unesco.org/sites/default/files/resources-sdg12.pdf











Annex

Additional documents included with the lesson plan:

Quality Presentation Reminder

QUALITY PRESENTATION REMINDER

A presentation should be clear and concise, so ask yourself the following while building a slide:

1) Is the font size between 24 and 28?

> if not, adjust it; enlarge the text if it's too small and vice versa

2) Do you have between 4 and 6 rows of text?

- only the most important notes go on the slide; remove all nonessential lines
- be careful: three rows or less is way too little text

3) Does your slide contain images?

- each slide should contain between 1 and 4 images
- > be careful: images should not cover text or be too large

4) Do you have any empty space on the slide?

- Increase line spacing to 1.5 or 2.0 and use larger text frames
- do not use a larger font instead because the slide could become cluttered

5) Did you use animations in your presentation?

- > text is more important than images so it should appear first
- images come with the text or after it; do not use slides with images only
- animated images should not obstruct the text

6) Do you use different slides in your presentation?

the presentation will quickly become boring if you use the same slides all the time, you can change the layout of the slides so your presentation stays fresh and interesting

USUAL SLIDE LAYOUTS

We have many different ways of designing slide layouts, but they mostly concern the position of the text and images on the slide. For example, we can put the text below or above the images:





We can also position the text to the left or right of the images:





We can also use slides with two different text frames:





Using Slide Master

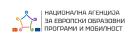






Creating a Quiz

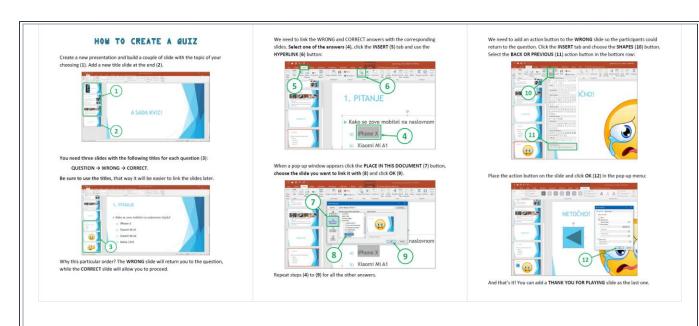




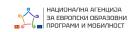








Reducing my material footprint (example presentation)



























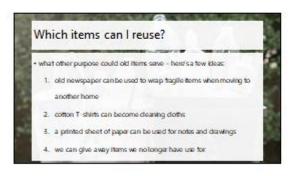




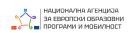










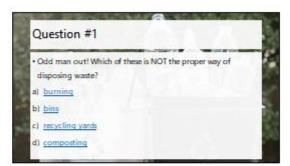




















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