

LESSON for Food consumption

Title:

Reducing the environment pollution recycling cooking-oil

Summary

Lesson Plan for the section food consumption. This lesson can be included in different subjects but it is more suitable with Chemistry lessons. It is suitable for students aged 12-15 or older. It is designed to take about 2 or 3 hours but it could be adjusted regarding the available time. In case we choose to spend only 2 hours it would be good to have a ready soap mixture already hard enough to be cutted and demonstrate it to our students at the end of the 2nd hour.

By the end of this lesson students will have understood the importance of oil recycling and they will know how to make their own soaps. Of course, always in collaboration with an adult and taking in account safety rules.

Methodological tools used

Discussion, Videos, Laboratory work, Team working.

Lesson implementation

1st hour

- 10' Warm-up, introduction to the problem we want to study. Children and their families' behaviours. Explanation of lesson structure.
- 5'' Video about the problem of oil cooking and discussion. What information did the students already know? What is the new information they've learned from this video?
- 10' Video "Saving the Environment with (Re-)Used Cooking Oil" Discussion of information given. Do the students know a collection center in their region? What could they do to be informed and inform others?
- 15' Steps and materials in order to make our own soap. Give the recipe to the students and explain to them the ingredients and the steps.
- 5' Each student is responsible to bring an ingredient or a tool which is needed for soap making.

Preparation of 2nd hour

Prepare the mixture of distilled water and NaOH because of the danger.

2nd hour

- 5' We check that we have everything ready before we begin
- 20-30' Children in groups stir the ingredients and in the end pour the solution into moulds
- 10-15' We clean up the bowls and everything we have used. We store the moulds.
- 5' We check the colour and hardness of the mixture (take a picture)

3rd hour- optional (the next day or the day after)

- 5-10' We compare the differences of the mixture from the last time.
- 20' We cut the soap in pieces and then in a dark and dry place to become ready to use.
- 20' We make a poster all together about cooking oil right treatment and reuse through its transformation to something else.
- 5' Conclusions

Attached files

Soap making instructions

<https://docs.google.com/document/d/139IK--Ki3i6-VUh92jLwhCZh0KU4Pap548SegulT0cc/edit?usp=sharing>

QR code



Video links:

1.The Environmental Problem of Cooking Oil

<https://visual.ly/community/videographic/environment/environmental-problem-cooking-oil>

QR code



2. Saving the Environment with (Re-)Used Cooking Oil

<https://www.youtube.com/watch?v=OiLT5uV11gw>

QR code

