

Didactic Scenario

1. Title

Seeds and forest

2. Keywords

'0' waste, recycling, clean nature, energy, clean water, climate change, environmental pollution

3. Basic Information

STEAM Subject: Arts, Science, Technology

Typical interaction time with the instructional scenario in teaching hours for in-school work:
Art(40'+40'), Science(40'), Technology(40')

General description of the scenario:

The story of a sheet of paper begins with a tree. The story of a tree begins with a seed. If people do not consume and recycle properly, trees come to an end one by one. While we think we are bringing the end of trees, it is actually us humans who are coming to the end. We are not conscious enough, we do not recycle enough. The measures we take for recycling and our nature are insufficient. This is a responsibility that should start at a young age, when our children are young, from the family and continue throughout their lives. If we do not fulfill these responsibilities, hunger, thirst, global warming, environmental disasters and natural events will be the most important problems of our age. The most effective way to deal with these problems is to respect nature and contribute to its recovery should be our first priority. We must urgently plant trees and restore our nature. We must protect our seas, our environment from waste. We must recycle.

Phases	Stage	Time
Art	preparation stage	40'+40'
Science	preparation stage	40'
Technology	implementation stage	40'

Age group: 7-10 years

Estimated difficulty level:

Very Easy	Easy	Moderate	Challenging	Very Challenging
		X		

Teaching resources

Material: waste papers, napkins, newspapers, etc., water, cheesecloth-strainer, seeds, cinnamon, bowl or plastic pot, towel or cloth, food coloring or marker

School infrastructure: smart board, internet workshop

Additional material from external sources/online tools:

<https://blog.good4trust.org/2022/06/18/tohum-topu-nasil-yapilir/>

Differentiated Instruction for students of differing abilities and learning styles in the same class: N/A

Developed by: Nurcan Yanalak

4. Educational Problem

In our world, million tons of waste are left in nature as garbage. As a harmful consequence of all this, our nature and eco-system is being damaged. Our water resources, sea and ocean creatures are dying. Forest fires, environmental pollution, water pollution, being an unconscious consumer... The global climate change crisis is at the beginning of all this. 99% of this waste can be recycled. We will inform our students and parents through activities that draw attention to recycling. We will make ball of seeds for our future and our nature. We will throw these balls into nature through nature trips.

5. Learning Objective (-s)

1. Makes environmental observations and expresses them
2. Recognizes waste and recycling materials.
3. Expresses the importance of recycling.
4. Suggests recycling activities.
5. Makes recycled paper into clay.

6. Phases of the Scenario

Phase 1

Title: Art

Indoor	Outdoor	Mixed
X		

Phase duration in minutes: 40'+40'

Detailed description of the scenario phase:

One week before, students will be asked to collect non-shiny paper waste. Tree and plant seeds will be collected.

Making Paper Balls of Seeds

We can make an upcycling project by preparing seed balls from waste paper. We can prepare fun souvenir seed balls by coloring the paper dough with food dye.

Preparation:

1. Cut the papers into small pieces and put them in the bowl.
2. Add enough water to cover them and leave them overnight.
3. The next day, add cinnamon to the softened papers and crush them with a fork or blender.
If you wish, you can add food dye for coloring at this stage.
4. Take the softened mixture in cheesecloth and strain it until it reaches the consistency of dough.
5. Form dough into small balls.
6. Place the seeds inside the balls.
7. Place them on a towel or cloth and let them dry.
8. The dried seed balls are ready to be placed in the soil.

<https://blog.good4trust.org/2022/06/18/tohum-topu-nasil-yapilir/>



They will be suggested to take a nature walk with their family. During this nature walk, they will be advised to leave these seed balls in nature.



Activity sheets: N/A

Phase 2

Title: Science

Indoor	Outdoor	Mixed
		X

Phase duration in minutes: 40'

Detailed description of the scenario phase:

<https://www.youtube.com/watch?v=v1BxgPBqmrU>

<https://www.youtube.com/watch?v=1sLyUQNRoqA>

Information about germination will be explained by watching the video. It is said that the seed balls will come to life in nature with the effect of rain and sun.

Activity sheets: N/A

Phase 3

Title: Technology

Indoor	Outdoor	Mixed
X		

Phase duration in minutes: 40'

Detailed description of the scenario phase:

Uses information technologies consciously and correctly.

Searches for the right source on the subject he/she is looking for.

Watches and comments on the source he/she has searched and found in accordance with its purpose.

Shares his/her feelings and thoughts about the videos he/she watches with his/her friends.

Activity sheets:

<https://www.youtube.com/watch?v=-UfvgBtgy2c> Information

<https://www.youtube.com/watch?v=TnewcncQwLM> attractive video

<https://www.youtube.com/watch?v=7WcZczUobiE> waste is killing ocean creatures

<https://www.youtube.com/watch?v=v1BxgPBqmrU>

<https://www.youtube.com/watch?v=1sLyUQNRoqA>

7. Evaluation Methodology

Değerlendirileceğiniz Sınıf Arkadaşınız.....		Tarih:/...../.....		
Değerlendirilecek Tutum ve Davranışlar	Her zaman	Bazen	Hiçbir zaman	
Etkinliğe katılmada gönüllüdür.				
Görevini her zaman yerine getirir.				
Arkadaşlarının görüşlerine saygılıdır.				
Farklı kaynaklardan bilgi toplayıp sunar.				
Arkadaşlarını uyandırırken olumlu dil kullanır.				
İş birliği halinde çalışmayı sever.				
Malzemeleri kullanırken israf etmez.				
Araç ve gereçleri kullanırken dikkatli ve titizdir.				
Sınıf kurallarına uyar.				
Kendi ve sınıf güvenliğine dikkat eder.				

Akran Değerlendirme Formu

SELF-ASSESSMENT FORM

Activity Name:

Date:..../..../.....

Name Surname:

1.What did I learn from this activity ?

.....

2. What did I do well?

.....

3. What did I have difficulty with and why?

.....

4. Where did I need help?

.....

5. In which area should I improve myself?

.....

6. What are my strengths and weaknesses?

.....

7. What will I do differently in my future work?

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8. Additional Resources for the teacher

<https://www.youtube.com/watch?v=v1BxgPBqmrU>
<https://www.youtube.com/watch?v=1sLyUQNRoqA>
<https://www.youtube.com/watch?v=-UfvgBtgy2c>
<https://www.youtube.com/watch?v=TnewcncQwLM>
<https://www.youtube.com/watch?v=7WcZczUobiE>
<https://www.youtube.com/watch?v=v1BxgPBqmrU>
<https://www.youtube.com/watch?v=1sLyUQNRoqA>