



**IT'S TIME TO CARE!**

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ERASMUS+ 2018-2020

PROJECT DURATION: 1 SEPTEMBER 2018 - 31 AUGUST 2020



# SUSTAINABLE

# SOCIETY

## Methodology

**Olaines 1.vidusskola**

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**Experiment carried by the team of Olaines 1.vidusskola on the topic Sustainable Society. Experiments with apples.**

**Experiments with apples.**

## **Experiment Nr 1. Apples oxidation experiment**

The goal of the experiment is find out which an apple is more natural and free of chemicals: an apple of domestic producers from Latvia or an apple from Poland or an apple from Holland.



An apple from Latvia



An apple from Poland



An apple from Holand

### **Step 1**

Take all 3 apples and cut in half two sides by knife



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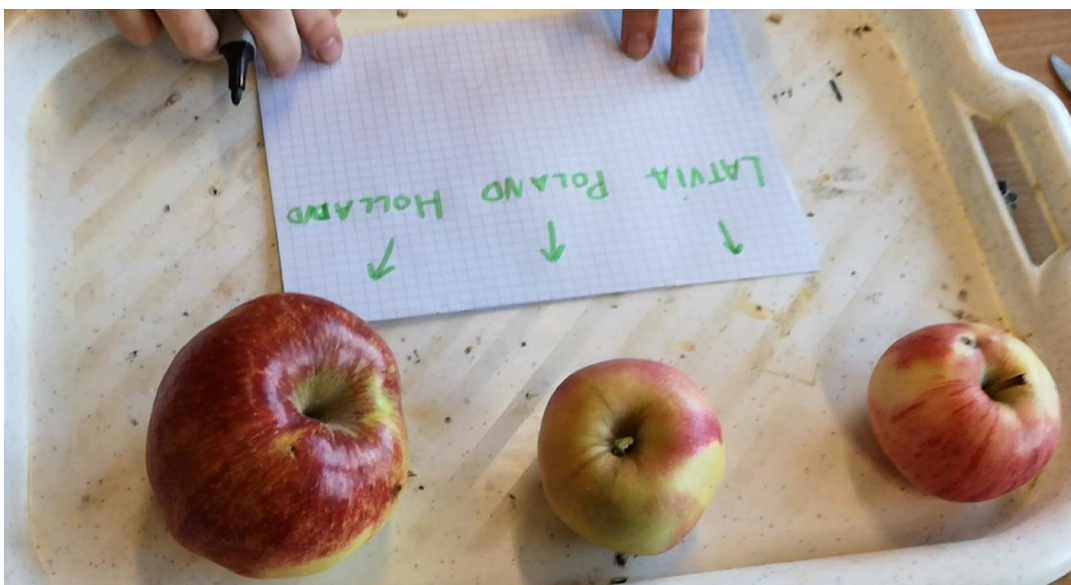
## Step 2

Write which apple is which



## Step 3

Put all apples on salver



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## Step 4

Put salver with apples on the windowsill and take a two foto in day.



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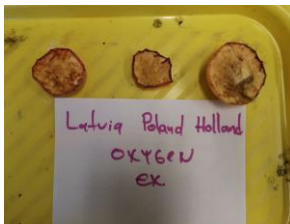
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## Results



**1st day**



**2nd day**



**3rd day**



**4th day**



**5th day**

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## Conclusions

The results show, that the Latvian apple started blowing the first and the juice was released. This means that the local apple is free of antioxidants.

The second the Dutch apple started to rot and even colonies of microorganisms began to appear, just as Latvian apples released juice. A layer of wax could be seen in the apple, which helps to protect against the ambient air.

The Polish apple began to oxidize in the same way as the Latvian and the Dutch apples. The Polish apple did not release juice. This means that Polish apples are sold with a low juice content so they can stay in stores for longer. We study on the Internet that Polish apples can last for two years without rot.

We finally found that domestic goods are much fresher and healthier than foreign goods.