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**LERA**  
Lithuanian Educational  
Research Association

# Inquiry-based learning (IBL) project's implementation report

*Why sort waste?*



Aizkraukles novada vidusskola



VILKAVIŠKIO RAJ. PILVIŠKIŲ  
„SANTAKOS“  
GIMNAZIJA



VILNIAUS VYTAUTO DIDŽIOJO  
GIMNAZIJA



ŠALČININKŲ RAJ. EIŠIŠKIŲ  
STANISLOVO RAPOLIONIO  
GIMNAZIJA



SOCIAL  
LEADERSHIP  
ASSOCIATION



# **Erasmus+ project "Teachers & Researchers Networking for Inquiry-based Learning".**

**ANV 1<sup>st</sup> class – 18 students.**

**Teacher – Lauma Riekstiņa.**

# Part I. IBL project metadata

1. IBL project theme //Why sort waste ?
2. Teacher's Name Surname, School // Lauma Riekstiņa, Aizkraukles novada vidusskola
3. IBL integrated subjects (domain) // natural sciences, social sciences
4. IBL project's goal // Students will find out why is important to sort waist
5. Kind of inquiry method(s) // 5E, Art-based, Learning through research cycle see Go-Lab, value-based problem solving.
6. IBL project common duration // 24 weeks
7. Form of education – formal, non-formal // formal
8. Participated class(es), number of students // one class, 18 pupils
9. What number of social risk, special needs, gifted students participated?? // 3

# Part II. IBL project description/ EN

- During the project I applied 5E, Art-based, Learning through research cycle see Go-Lab, value-based problem solving, Gagne's 9 methods. I used a lot of different YouTube channels where there was information about waste sorting. Project presentation and video are shared with you on google drive.
- Arrange your activities description according to the IBL project phases, its time (or duration) :
  1. Orientation (1 week)
  2. Conceptualization, questions, hypotheses (3 week)
  3. Investigation, data collection (4 weeks)
  4. Data analysis (4 weeks)
  5. Conclusion, presentation of the results, dissemination (1 week)



# Why sort waste?

Students will find out why is important to sort waste, how much bin they have at home, how they sort waste at home, set up their own bins for each waste, will collect data of usage of this in their family.  
Excursion to a waste recycling company.

ANV 1<sup>st</sup> class

# ABC Learning Design

First week March 2022 – 1<sup>st</sup>. class

## 1. Introduction of project



**Discussion**  
🕒 : 5 min



What do we know about sorting waste?

**TICE:** Kids, Teacher

**Acquisition**  
🕒 : 10 min



Teacher shows videos about sort waste.

**TICE:** Teacher

**Acquisition**  
🕒 : 5 min

**Discussion**

🕒 8 min

Teacher tells project about  
All class together have brain storm about project



**TICE:** Kids, Teacher

**Investigation**  
🕒 3 min

**Collaboration**  
🕒 4min

The teacher distributes worksheets at home to find out how many bins are in their homes and what they put there. Tells about filling the page.

**TICE:** All together



**Discussion**  
🕒 : 5 min



Students start filling out questionnaires.

**TICE:** Kids

**Acquisition**

🕒 : ... min

**Pratique**

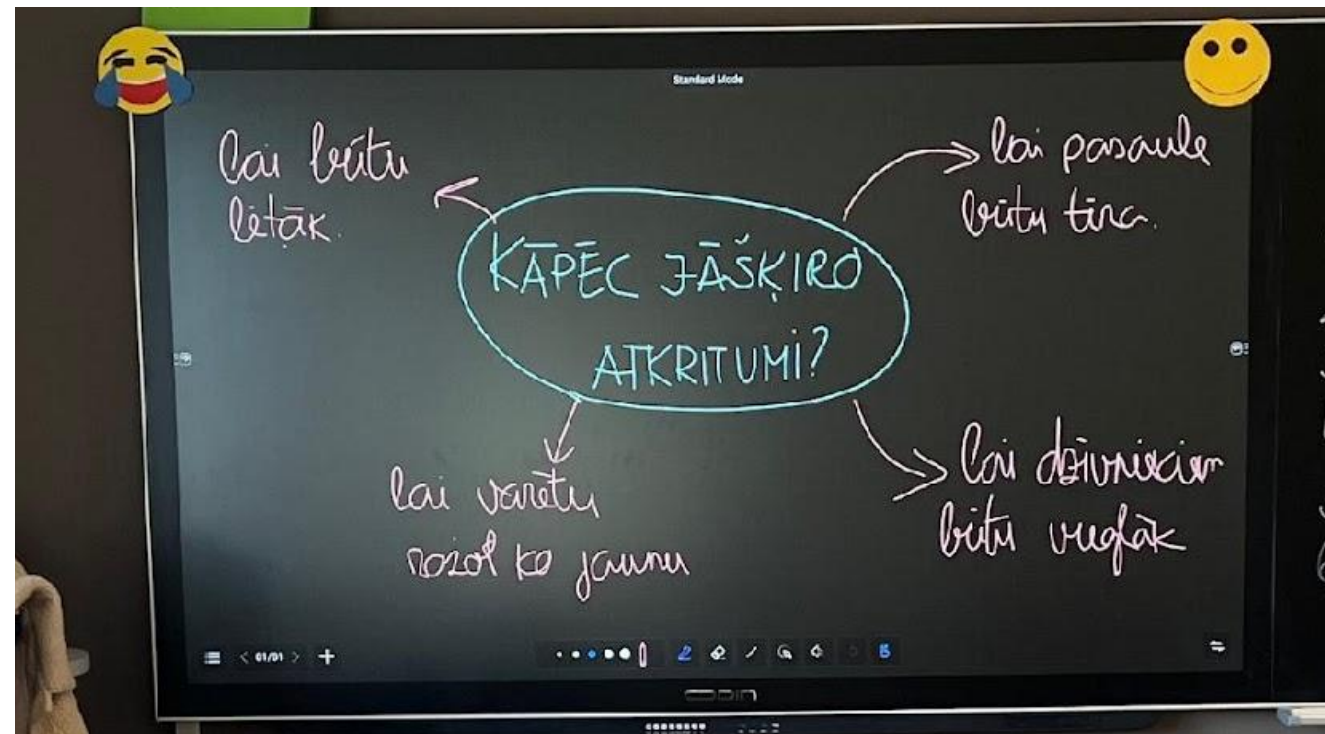
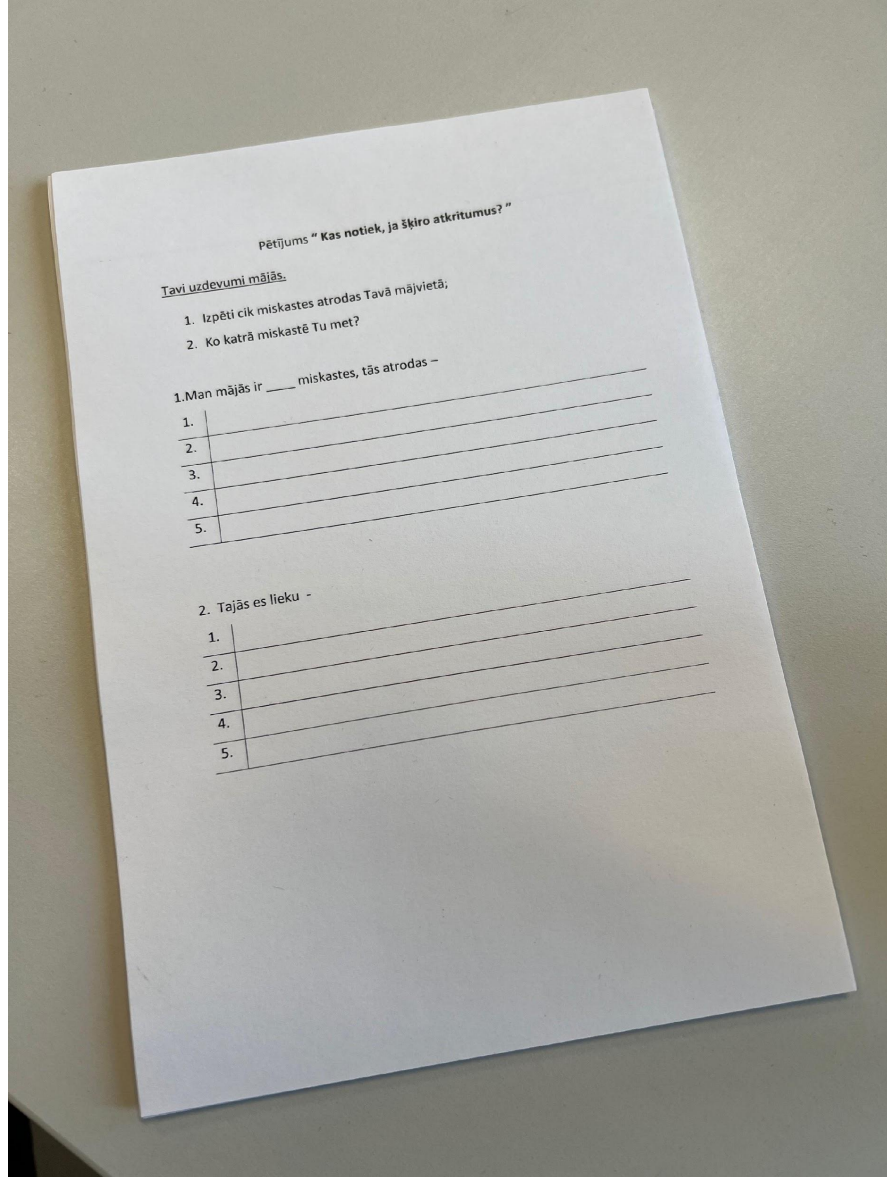
🕒 : ... min

**Production**

🕒 : ... min









# ABC Learning Design

Second week April 2022 – 1<sup>st</sup>. class

## 2. Project activity



**Discussion**  
🕒 : 5 min



The teacher shows the chart circles on the board. The teacher talks about the results of the questionnaires.

**TICE:** Kids, Teacher

**Acquisition**  
🕒 : 10 min



Teacher shows videos about how sort waste. Where to put the plastic, glass, paper and food.

**TICE:** Teacher

**Acquisition**  
🕒 : 5 min

Teacher tells about next job. Cut out products from food magazines and put them on cardboard of the appropriate color. Yellow - plastic, blue - paper, blue - glass, brown - food.

**TICE:** Kids, Teacher



**Pratique**  
🕒 : 30 min

**Collaboration**  
🕒 : 30 min

The teacher distributes worksheets at home to find out how many bins are in their homes and what they put there. Tells about filling the page.

**TICE:** All together



**Discussion**  
🕒 : 5 min



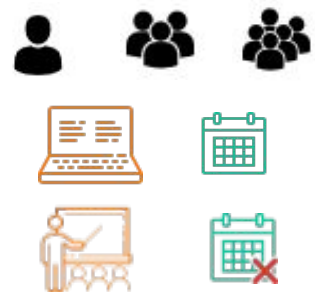
Together we check that things are in the right trash. Homework discussed - waste sorting sites must be set up at home and pictures sent with them.

**TICE:** Kids

**Acquisition**  
🕒 : ... min

**Pratique**  
🕒 : ... min

**Production**  
🕒 : ... min

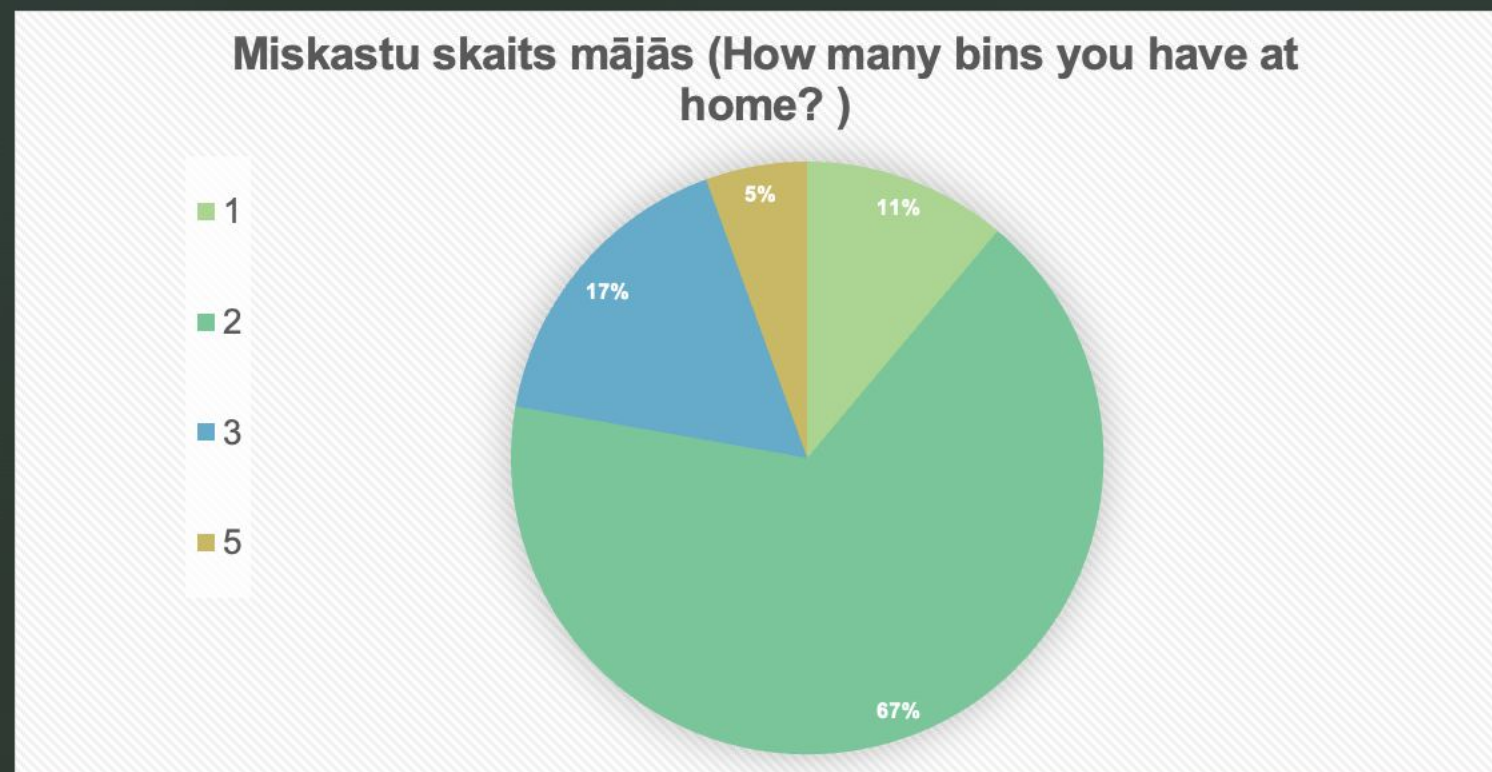




# ABC Learning Design

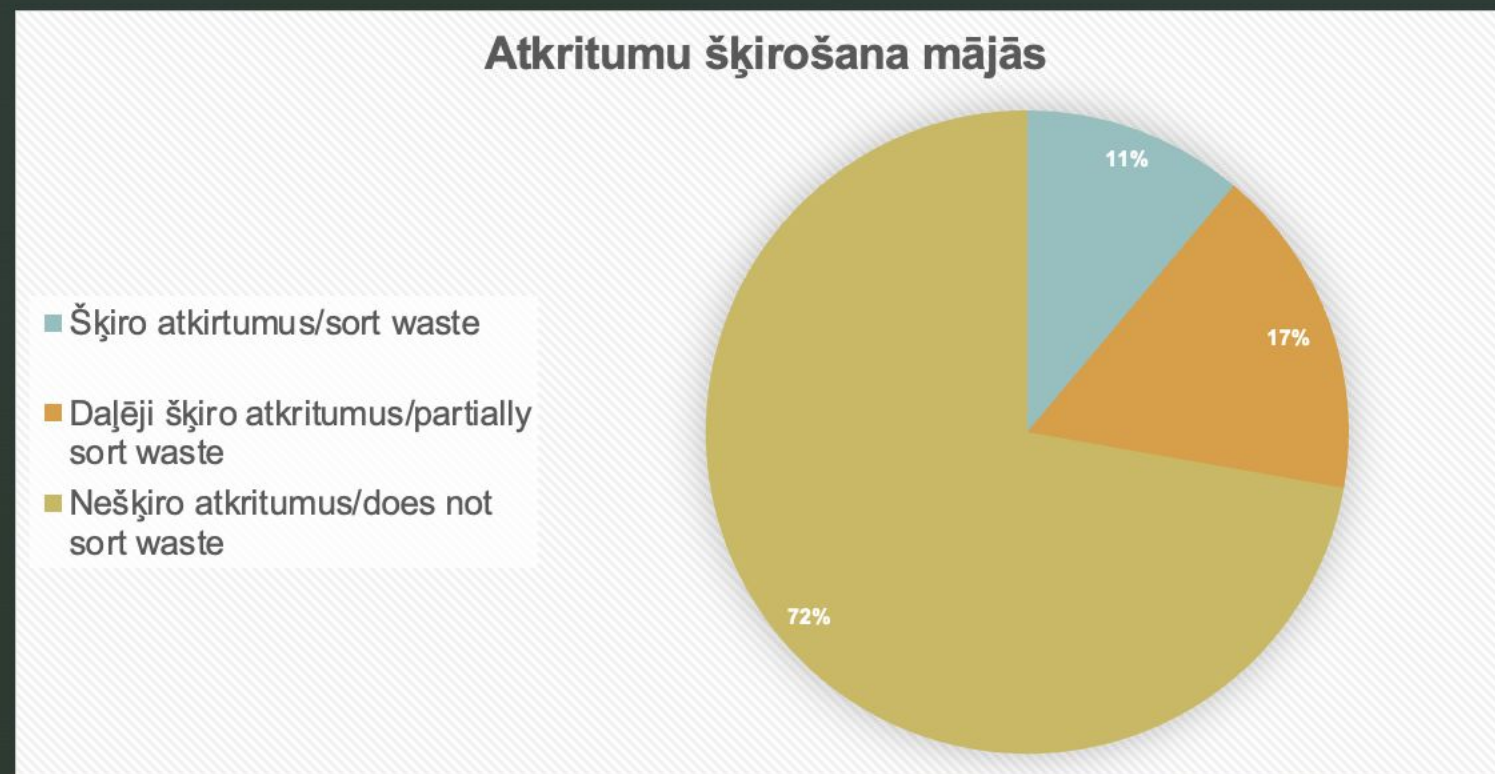
## Questionnaire results

1. Cik daudz miksastes tev ir mājās?  
*How many bins do you have at home?*



## Questionnaire results

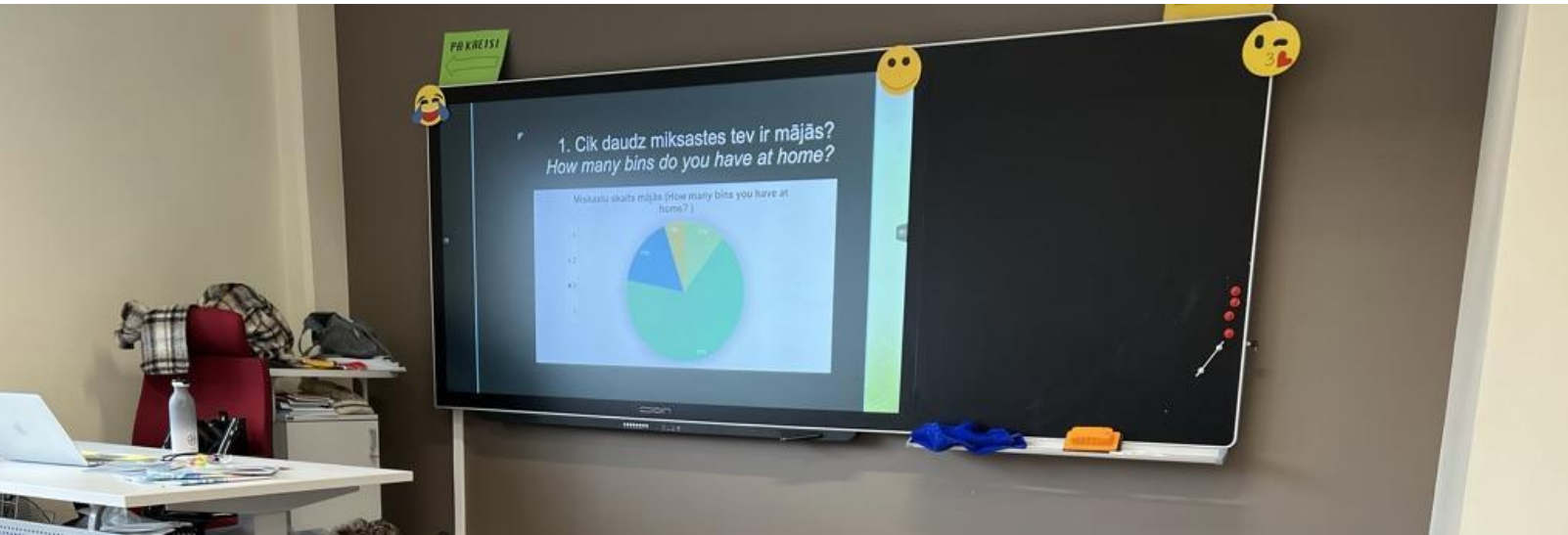
### 2. Vai notiek atkritumu šķirošana mājās? *Is there waste sorting at home?*





# ABC Learning Design

## Questionnaire results





# ABC Learning Design



**Project activity**





## Homework

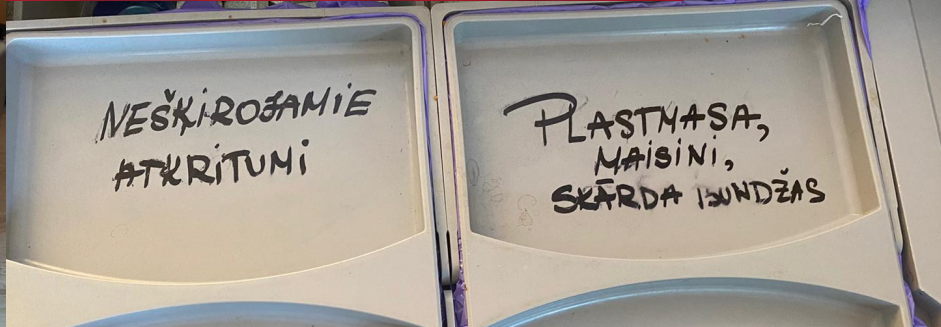
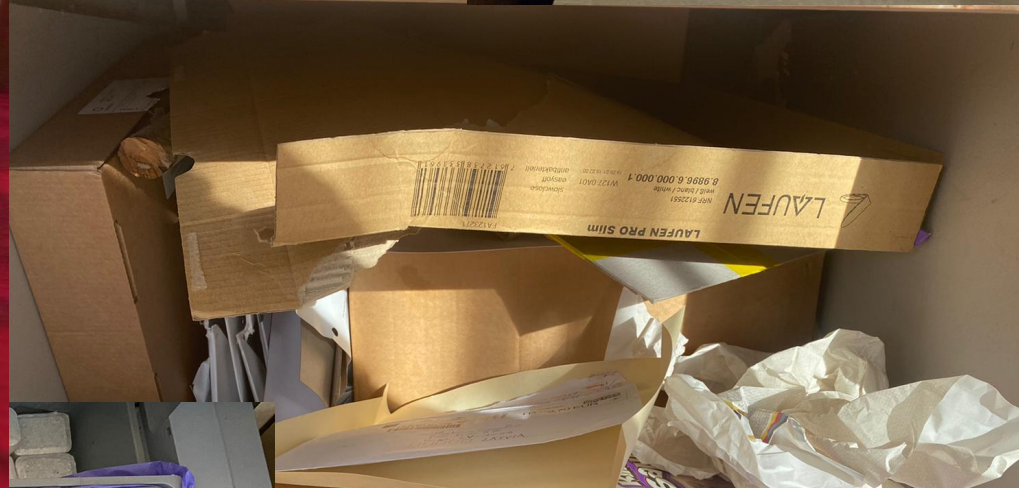
### Mājasdarbs! *Homework!*

- Ierīko mājās atkritumu šķirošanas vietas – plastmasa, stikls, sadzīves atkritumu. Atsūti man bildi pēc tam.
- *Install waste sorting places at home - plastic, glass, household waste.*



# ABC Learning Design

## Homework





# ABC Learning Design

Third week April 2022 – 1<sup>st</sup>. class



## 3. Study tour

**Discussion**  
🕒 : 5 min



The teacher says that they will go to the waste sorting company SIA "Aizkraukles KUK »

**TICE:** Teacher

**Discussion**  
🕒 : 15 min



Pupils asked interesting questions - where is the recycled waste? etc.

**TICE:** Kids

**Investigation**  
🕒 : 90 min

The head of a waste recycling company takes students to an area where everything happens. The first stop is plastic waste, showing the equipment the workers are working on and how it is being crushed into blocks. Do the same with waste paper. Glass waste is collected and sent to Lithuania, where it is further processed. It is said that we have new red containers in Aizkraukle, where you can put clothes.

**TICE:** Kids



Acquisition

🕒 : ... min

Pratique

🕒 : ... min

Production

🕒 : ... min





# ABC Learning Design

## Study tour





# Study tour





# Study tour

