

# Sustainable Childhood

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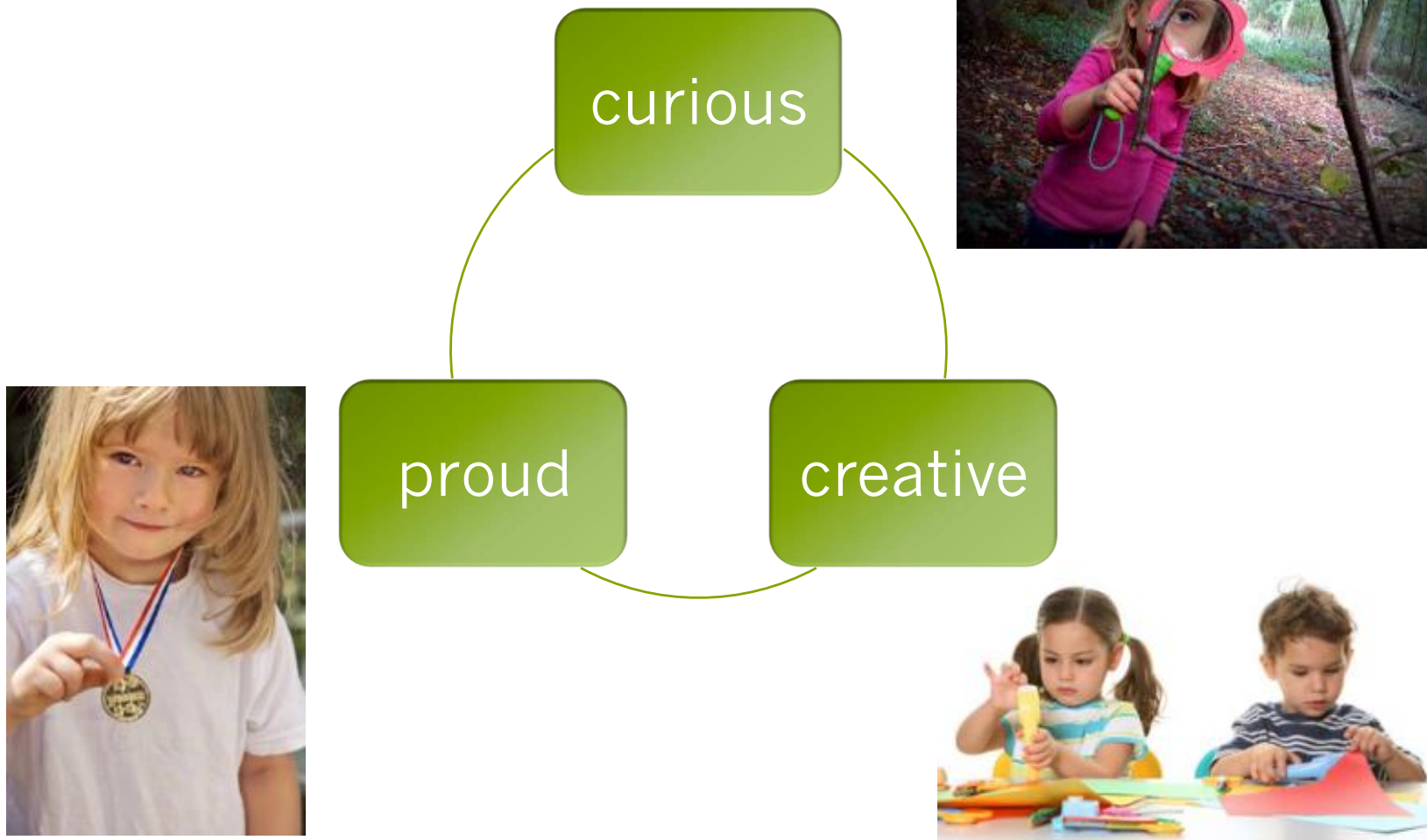
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## Design goal

**Let children from 9-12 years old  
treasure the value of waste  
materials**

# Interaction vision



# Metaphor

Children will experience  
the activity like playing  
LEGO



# Design and research questions

- How can I simplify the whole activity and mainly focus on one interaction?
- What materials should I focus on?

# Design and research activity

1. Intervention prototype workshop with other students
2. Prototype making
3. Observation at playground and toy stores
4. User test with children

## Field research





# Interview



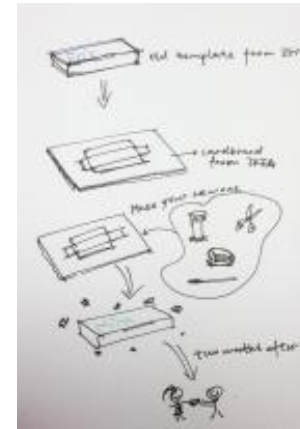
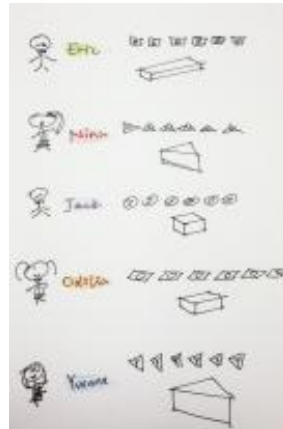
# Workshop



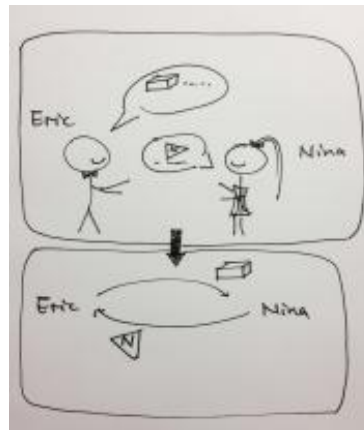
# Main findings

- Curiosity about the world
- Vague idea about sustainability
- More freedom and more independent
- Be willing to share things with friends

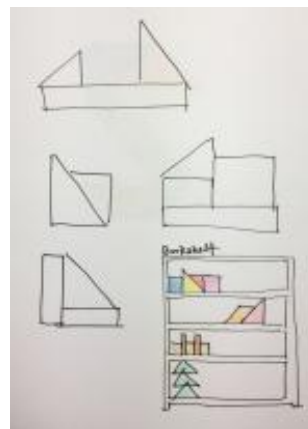
Make



Exchange



Show





Make



## Material exploration Daily waste



# Intervention Prototype



Four kinds of DIY package with the Christmas theme

Answers and tasks don't match in one package. They need to communicate with others to find the answers.



## Christmas



Creation package  
-Christmas Tree

You need one old material to make the Christmas tree.  
Hint: You see it everyday.  
Try to find them in your house.  
Let's make the tree.



That's the materials for the other friend. She/He got the answers for you.  
Let's go and find the answer.



## Christmas



### Creation package-Hat

You need two old materials to make the hat.  
Hint: You may see them everyday.  
Try to find them in your home.  
Let's make the hat.



That's the materials for the other friend. She/He got the  
answers for you.  
Let's go and find the answer.

# Christmas

Creation package  
-Flower lights



You need one old material to make the Christmas tree.  
Hint: You see it everyday.  
Try to find them in your home..  
Let's make the flower lights .



That's the material for the other friend. She/He got the  
answers for you.  
Let's go and find the answer.

# Christmas

Creation package  
-ice ball



You need one old material to make the hat.  
Hint: You may see it everyday.  
Try to find them in your home.  
Let's make the ice ball.



That's the material for the other friend. She/He got the  
answers for you.  
Let's go and find the answer.



Prototype making







# Observation



## Final design

- It is a collection of booklets designed for children to inspire them to create interesting items out of paper rolls. The collection consists of five different packages and a special making method is shown in each package.
- A new module system is created to stimulate children to create their own piece of work. It achieves the balance between guidance and freedom.





# Little Designer Package



# What is Little designer package?

It is a package to inspire you to design interesting models with waste materials by yourself. Easy methods are shown in the booklet.

Let's design!

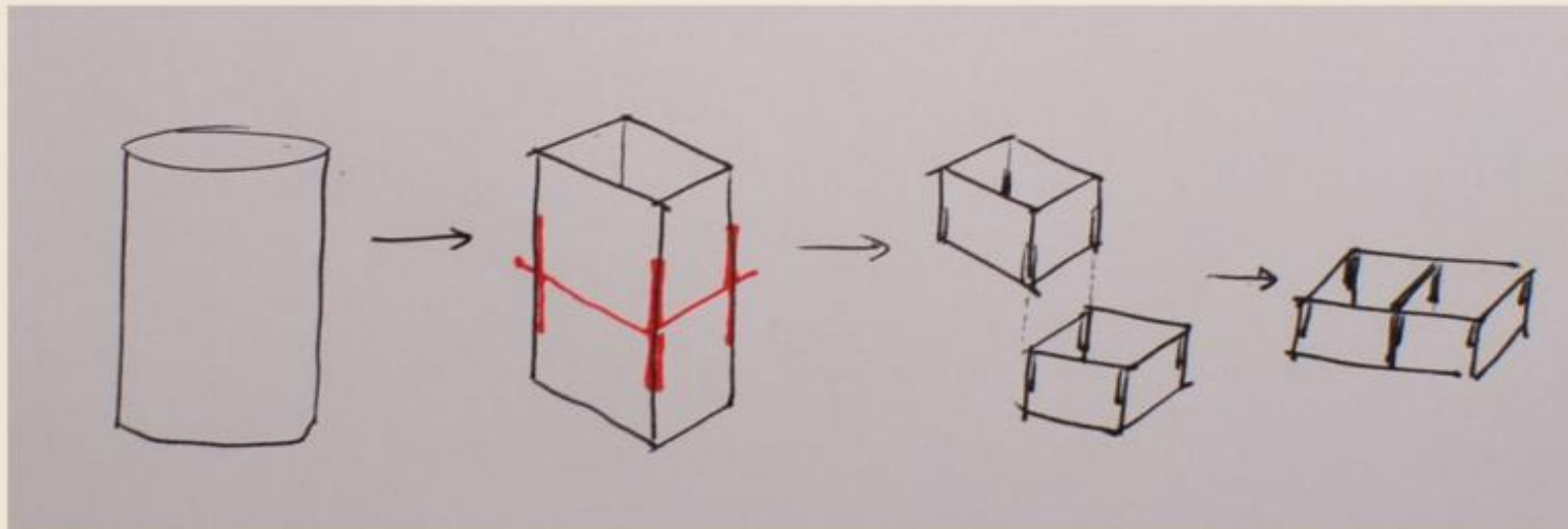
# Step 1

Collect toilet and kitchen paper rolls



## Step 2

## Making method



1. Make the roll into a cuboid
2. Cut it into two halves
3. Cut the half length of the four edges for both two cuboids
4. Turn one cuboid upside down and put them together

# Step 3 Make





# My design

Hi, I am Joyce.

I made this paper roll doll. It can be used as a pen holder or tickets clip. I drew a Japanese doll on it. I like it so much.



Would you like to try?  
If you need my help,  
please tell me.

## Show your design to others

print your design models and stick it on the back of this paper and write down your little story about your design.

Don't forget to leave your name on the card. Then others can easily find you if they need your get help.

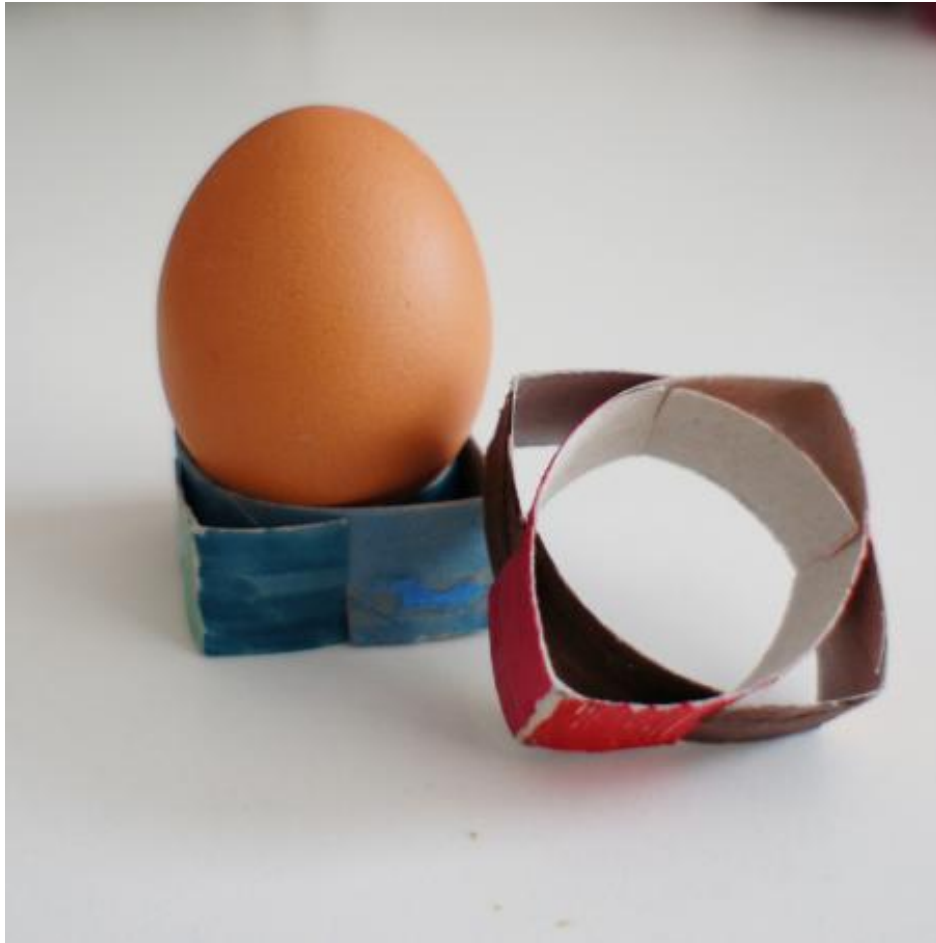










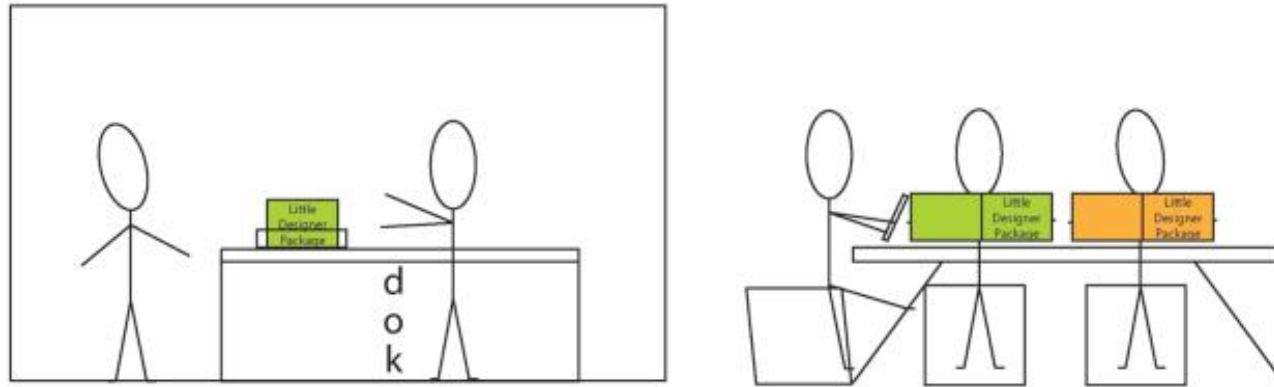




# Scenario

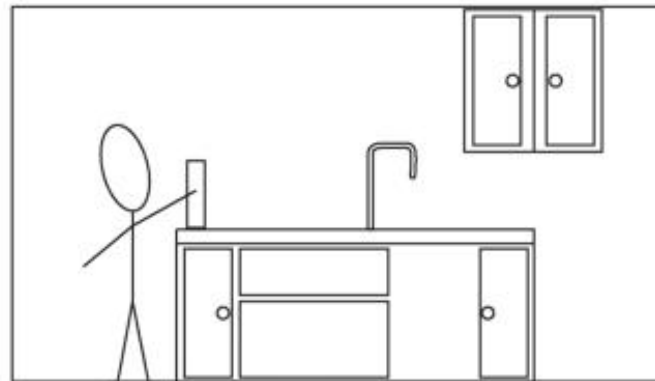
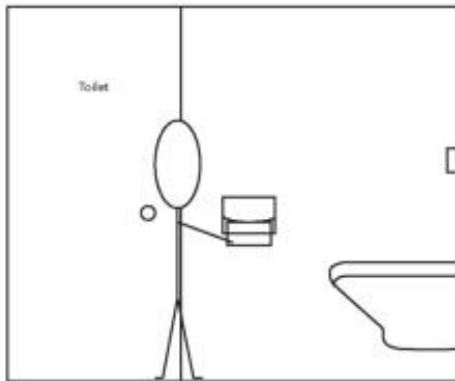


- The whole activity takes place in schools or public libraries where children spend time together or inside a family which has more than one child. The following story happens in dok-Delft Library Concept Center.



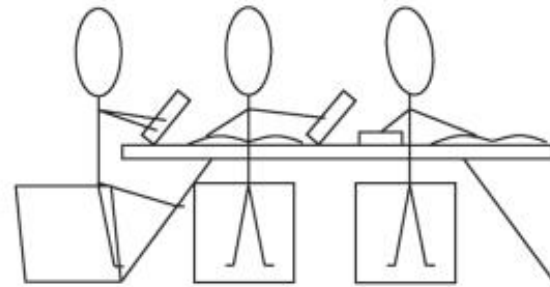
- Children get the Little Design Package in children's area. They get different booklets from each other.

- They start look for used paper rolls in the toilets, coffee corner and paper waste basket.

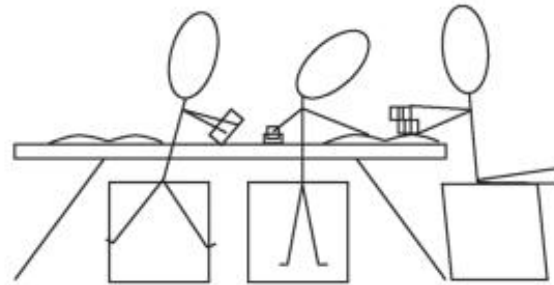




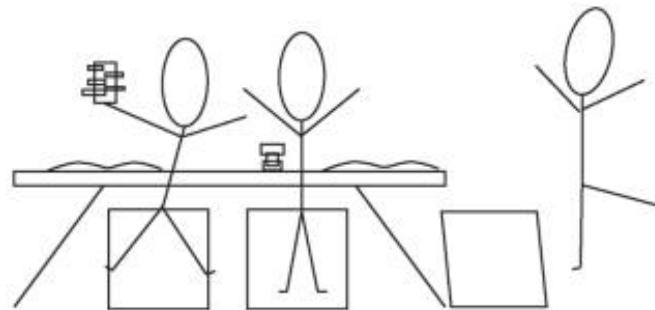
- Making

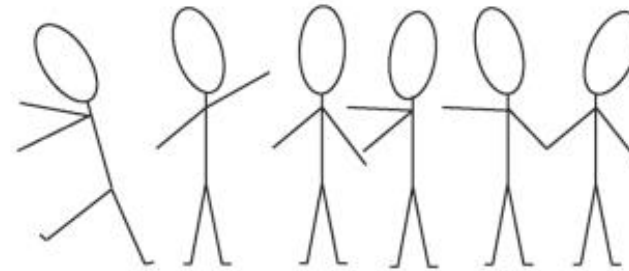
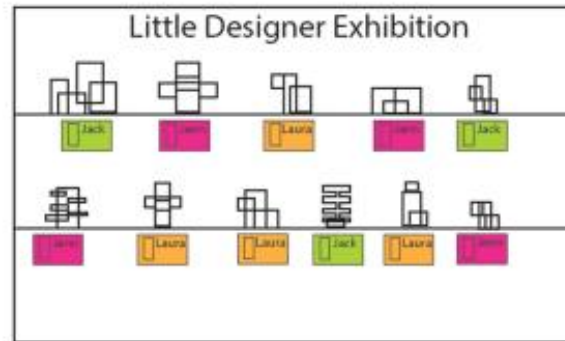


- Discussing



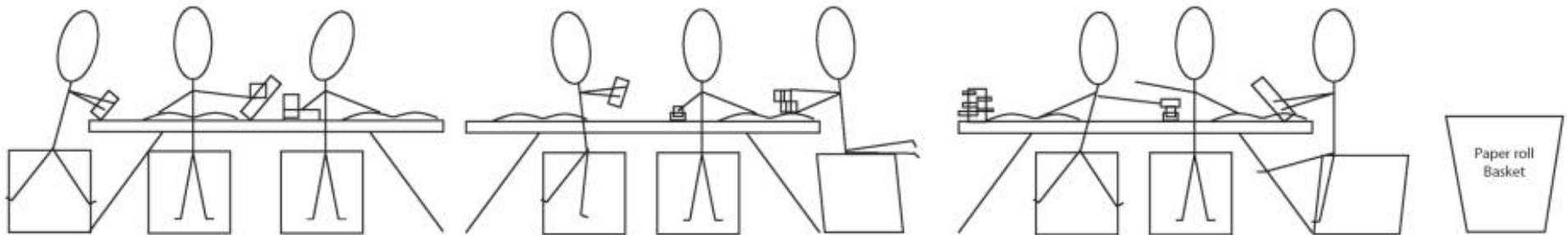
- Finishing





- After two weeks, they have learned all the methods from the booklets and created some new models. They hold a small exhibition inside the library or classroom.

- More children get curious and inspired by their exhibition. The activity becomes bigger.



- And they have a special basket to collect their paper rolls from their home.

# Evaluation

What went well?

- The result fits my design goal and interaction vision.
- It creates a curious, creative and proud experience for children.
- It focuses on waste materials.

# Evaluation

More suggestions?

- Test with a large group of children
- Organize a long-term workshop
- Keep developing the making methods
- Multiple platforms like Facebook



Thank you.