

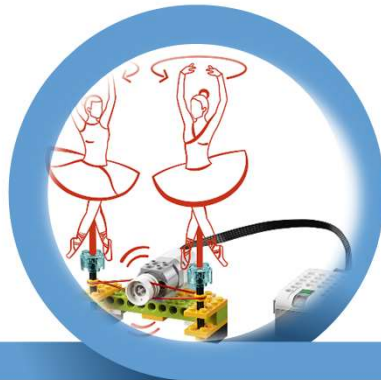
Examples of robotic artefact constructions

The importance of Crafting

A Combination of handicraft and technology



Crafting Categories



Basic Level

Base with instructions
Complete the construction with
their ideas



Advanced Level

They have components and they
have to think how to use them



Expert Level

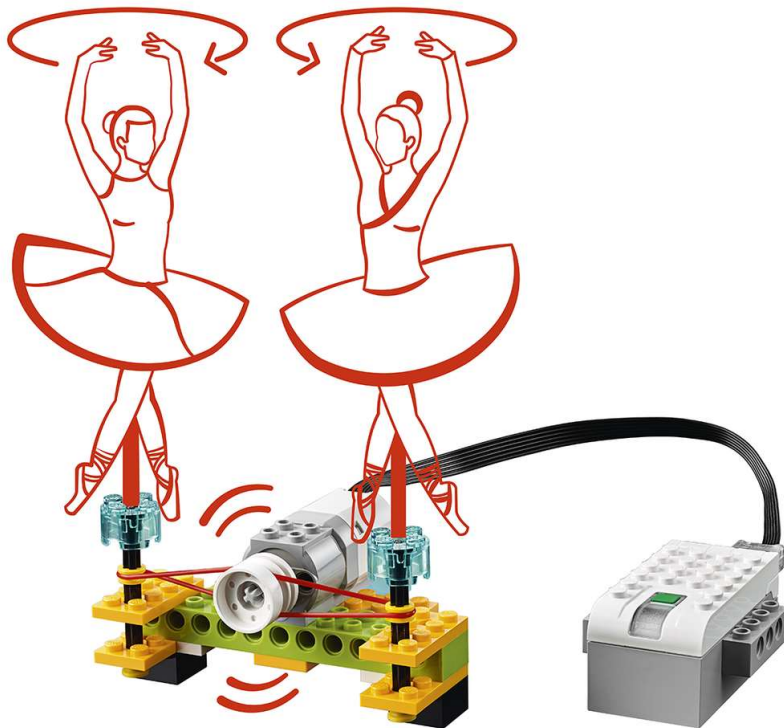
They must think not only for the
construction but also about
materials

Examples

BASIC LEVEL

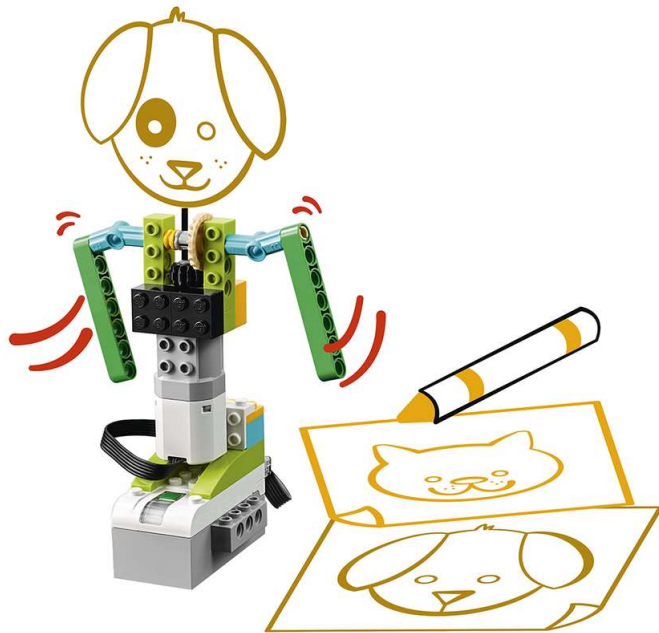


Semi – crafting “Dancing Robot”



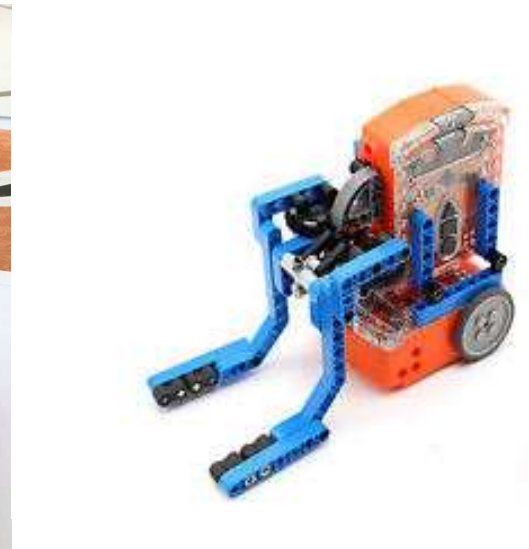
- Build the base with instructions
- Choose a theme (e.g dance)
- Create their figures
- Put their drawing or construction on the robot
- Visual programming
- Tinkering

Semi – crafting “Animals have fun”



Stages

- Introduction
 - Introduction
 - Preparation
 - Discussion
- Find a problem
- Brainstorm
- Choose the best idea
- Go make
- Evaluate what you have made
- Present your model
- Assessment
- Tidy up



Examples

ADVANCED LEVEL



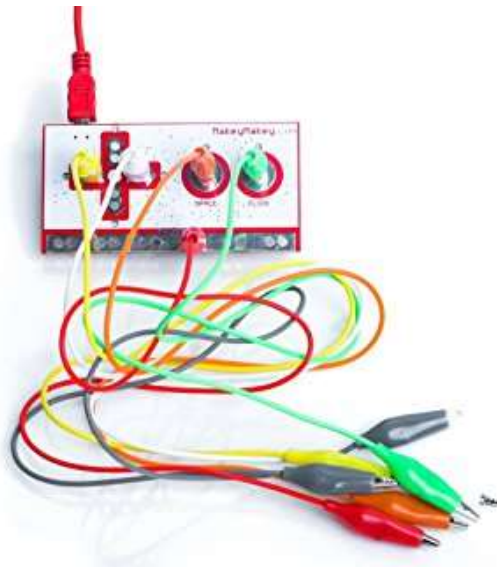
Little bits

littleBits™

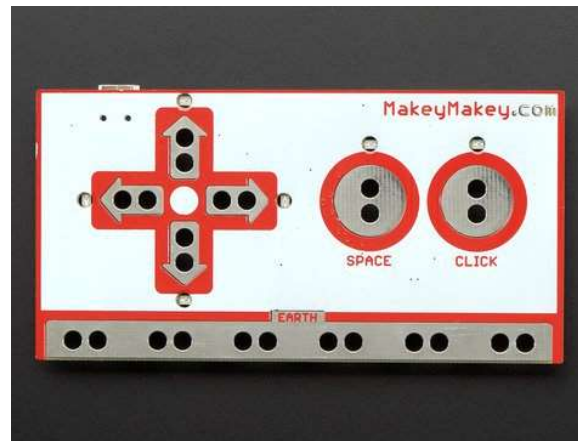


Little Bits Example

Makey - Makey



Example Makey Makey



Examples

EXPERT LEVEL

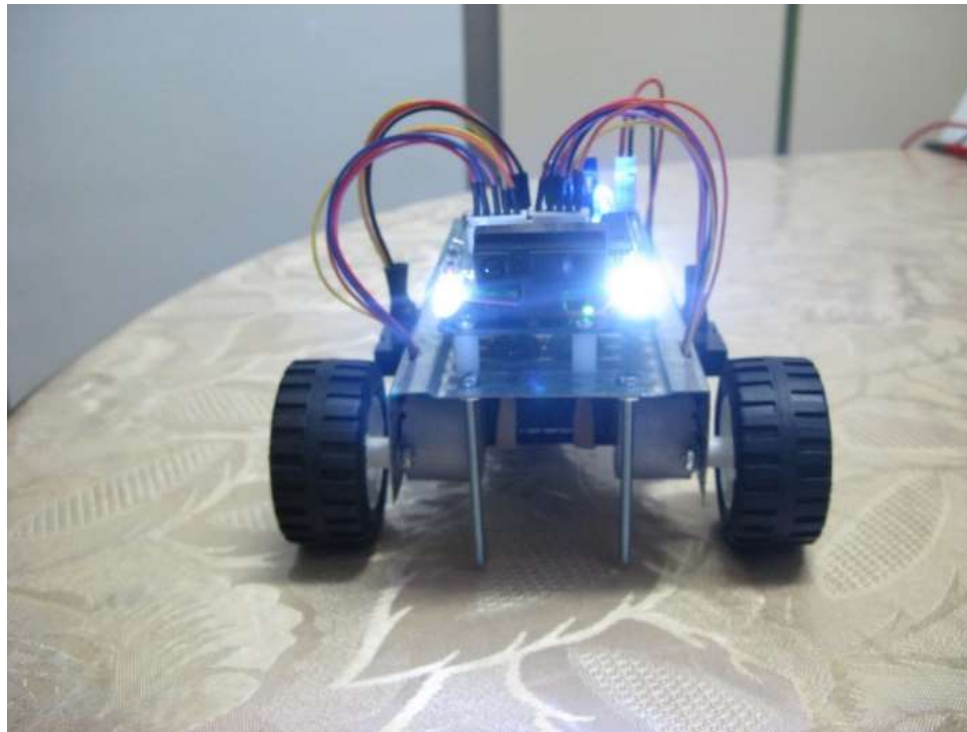


Robots produced by recycling materials “Titanas project”

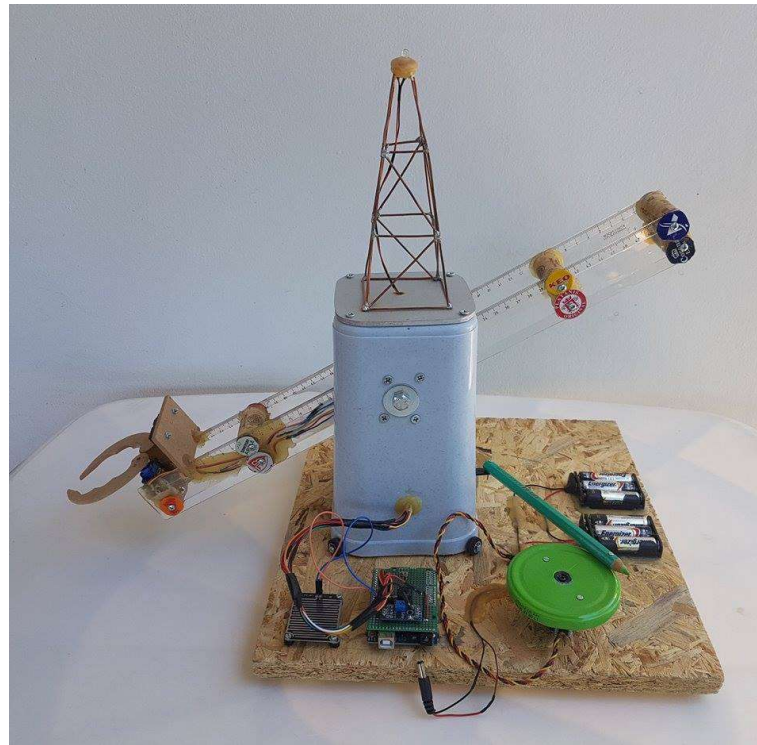


- Give life to “recycled materials”
 - Tins
 - Wheels from a broken toy car
 - Pipes...
- Arduino uno
- Code your own robot

Robots produced by recycling materials “ReCaBot project”



Robots produced by recycling materials “Crane project”



VR & PROJECTOR



Cartons

Lenses

