



the education makers

The eematico Concept

- ✔ **What is eematico:** eematico Research is an organization focused on creating and developing experiential learning programs that develop lifeskills for the 21-st century.
- ✔ **Why:** because we believe that play is the fundamental learning mechanism in nature and design based making&building is its most advanced form.
- ✔ **How:** we use activities, methods and materials, designed and tested by us, to achieve in a fun and engaging way educational objectives. We focus on developing through play, making & building: decision making, open ended problem solving & design thinking, planning , organizing and prioritizing actions, communication & teamwork, knowing when to be collaborative and when to be competitive, knowing how to use technology in a balanced and sustainable manner, practical skills, creative skills and self reliance.



The eematico Concept

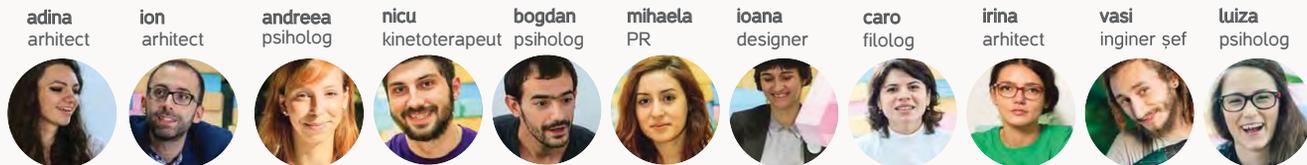
- 📍 **Where:** in our kids DIY maker-studio located in Bucharest's first makerspace - NodMaker-space, in kindergartens and schools, in summer camps and fieldtrips and in general wherever our educational concepts find a welcoming environment.
- 🛠️ **With what:** with our passionate and skilled team, with good spirit & fun, with materials specially designed by us, with more than 100 hand and power tools & devices, with various materials from cardboard to wood, micromotors and microcomputers. And in general with anything that can be a useful and fun educational tool.
- 👥 **Who is our target audience:** kids with ages from 3 to 14 years old, grownups and anyone who is interested in exploring the world through play and making. We do not want our programs and activities to be limited to kids who can afford it so we try to develop through our NGO, using our knowledge and resources, our ability to share our educational experiences to children in disadvantaged communities.



The eematico Team

 **Who are we:** a young team that for the last 5 years has been using its drive, knowledge and skills to develop what we believe necessary for a complete life skills education, adapted to the needs and natural capacities of children & adults in the 21-st century. Our ideas have been validated by children and parents, the Erste Foundation, Lego foundation, Ashoka Foundation and other numerous organizations

 Creators, psychologists, trainers, designers & makers:



 Our experience:

Activities with more than **3000** kids

Summercamps and fieldtrips with more than **200** kids

Events with more than **250** kids at once

Hundreds of hours of educational content

We've built the first kids **makerspace** in Romania

We've built the **largest structure** ever assembled by kids

Maker Exploratorium - program for children 7-14 years of age



 **Maker Exploratorium - one time events-** is the place where your children build ideas and learn through play! Their imagination materializes in a fun, meaningful and educational way through DIY workshops where they can build cars, animals, planes and many other things. Every week we choose a different theme for kids to explore. We start by talking with them about the subject, exploring online and offline resources about the subject, draw up a project and start tinkering. We are flexible though. The theme is just a suggestion, so if the kids have something specific in mind they will receive all the support of our wonder-trainer. The purpose is for the kids to tinker ambitious projects, in an educational manner, using design thinking, understanding physical phenomena, managing limited resources and collaborating with other kids as a way of achieving their goals. They will be practicing their divergent thinking and refining their creative processes.

 We use materials such as paper, cardboard, wood, plastics (as little as possible), screws, glue, paint, play-dough, micromotors, LED-s, power and hand tools. Nothing is forbidden, nothing is left out. It's a matter of choice and need, and is up to the kids to decide with our support.

 The eematico DIY has educational and formative value because through it: we train motricity, social, cognitive and communication abilities, we increase attention span and enhance management, organizational, interpersonal and creative skills. Furthermore we experientially learn math, geometry physics, engineering, technological sciences, we become makers, we discover and activate important human values, we gain courage to test, make errors, start again, learn how to cooperate and value mutual respect.

Maker Exploratorium - program for children 7-14 years of age



Maker Exploratorium - the course- It takes the concept of one-time events and structures them in a timeline that aims at developing, in a progressive manner, long term skills. The course offers children the opportunity to discover and understand phenomena and knowledge of everyday life. Tinkering will be their exploration tool!

The projects will teach children about geometrical shapes and volumes, their properties and characteristics, about rotation movement and aerodynamics, about several types of mechanisms and their usefulness in the world, about light and electrical circuit components and how they work together, about electromagnetism and much more. Kids will have the opportunity to get acquainted and use the tools in our workshop in a progressive manner, in order to bring to life evermore complex projects. They will have the opportunity to use measuring tapes, squares, rulers, screwdrivers, drills, electric screwdrivers, saws and moto-saws, bench drill, circular saw. In addition they will get to meet and use the computerized styrofoam cutter and laser engraving machines.



The whole is structured in a progression of four modules with four lessons:

- **Geometry:** Measure, Shape, Volume, Shape repetition;
- **Object movement:** Types of movement, Rotation, Aerodynamics, Hydrodynamics;
- **Mechanics:** Simple mechanisms, Pulleys, The Camshaft & The Cogged Wheels, The Automata and The Crankshaft;
- **Electricity:** Electricity, Resistivity, Electromagnetism, The electrical motor.

I Can Be -program for children 3-6 years of age

 **The course objectives:** : each of the 9 modules comes with a set of unique challenges and experiences that, in order to stimulate, develop and refine, bring into focus:

- interaction with other players;
- fine motricity skills;
- creativity;
- planning skills;
- thinking ahead;
- resource management;
- following instructions;
- problem solving;
- cognitive operations;
- cooperation;

 **The eematico materials:** the learning materials used in our program are 90% designed and built by our team in our workshop.



 **We give feedback:** custom medals with encouraging and empowering messages for each kid as well as progress reports for the parents.

The 9 Modules:

-  **I Can Be an Artist**
 - ▶ music instruments to engraving ◀
-  **I Can Be a Toy Maker**
 - ▶ string-puppets to music boxes ◀
-  **I Can Be an Explorer**
 - ▶ map to earthquakes ◀
-  **I Can Be an Environmental Engineer**
 - ▶ pollution to sustainable agriculture ◀
-  **I Can Be a Material Scientist**
 - ▶ wood to adobe ◀
-  **I Can Be a Constructor**
 - ▶ brick-wall to tower ◀
-  **I Can Be a Technicus**
 - ▶ pulley to computer programming ◀
-  **I Can Be a Doctor**
 - ▶ teeth to body movement ◀
-  **I Can Be a Reporter**
 - ▶ clue to story ◀

1 Day Children events



- Up to 4 parallel activities;
- Up to 250 children with ages ranging from 3 to 14 years old;
- Up to 20 different electrical tools;
- Up to 180 rubber band powered cars built;
- A copper-tube rocket with 500 parts;
- Up to 2000 styrofoam bricks for free building.

1 Day Exploration Trips -roving and learning



▲ In the **Mini Explorers fieldtrip** we took the train, explored new countryside, built compasses for better orientation, drew maps of newly discovered territories, were fascinated by the cable car and came back home with lots of new friends.

○ In the **Little Stars of Buftea Studios fieldtrip**, we visited a real film set, we used costumes to become film heroes and built our own camera in the eematico studios.

Fieldtrip - your whole class visits us



▲ ▲ Be they solo or group projects, our DIY activities reflect the creativity and abilities of the children in a 1 day building adventure with your classmates.

▼ ▼ Dedicated to schools near or far.

Summercamps - experiencing on your own



🌱 7 days of educational activities, road trips, mechanical devices, knowledge contests, cooking, small DIY projects, hammocks, swings and a huge roller-coaster... wonderful experiences in the 2015 Makeyland theme park building summercamp.

👉 Coming up...Circo d' eematico!

Teambuilding - grownups become eematicons



- ▶ Playing is the fundamental learning mechanism in nature, and that applies to children as well as grownups.
- ▶ A large scale project, a day or a weekend of designing, planning, negotiating and building for a whole team to use as a learning, exploration and developing program.

Come meet us!



CONTACT

hello@eematico.org
0722 277 637 - adina

eematico.org

160 Splaiul Unirii
Bucharest
Romania