

Didactic Scenario

1. Title

Futuristic Architecture

2. Keywords

Future, Digital, Architecture, Lego

3. Basic Information

STEAM Subject: Technology, Engineering, Art, Math

Typical interaction time with the instructional scenario in teaching hours for in-school work:
45 minutes

General description of the scenario:

<u>Phases</u>	<u>Stage</u>	<u>Time</u>
What is an architecture?	Preparation	10 minutes
Futuristic architecture	Implementation	25 minutes
Closing	Evaluation	10 minutes

Age group: 1-4 grades

Estimated difficulty level:

Very Easy	Easy	Moderate	Challenging	Very Challenging
		X		

Teaching resources

Material: N/A

School infrastructure: Computers for students, computer for a teacher, projector or TV screen.

Additional material from external sources/online tools:

Mecabricks

<https://www.mecabricks.com/en/workshop>

How to use Mecabricks

<https://youtu.be/DJ-C0fJv3QQ>

Differentiated Instruction for students of differing abilities and learning styles in the same class: N/A

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4. Educational Problem

Everybody grows up in different environment and we don't have the same opportunities. Purchasing a big set of Lego bricks is expensive, and you have to have a Lego container for keeping them in one place. But thanks to digital technologies these days, we can perform same functions in digital world.

5. Learning Objective (-s)

1. Learn about architecture
2. Learn how to use Mecabricks online program
3. Create digital version of unseen futuristic architecture.

6. Phases of the Scenario

Phase 1

Title: What is an architecture?

Indoor	Outdoor	Mixed
X		

Phase duration in minutes: 10 minutes

Detailed description of the scenario phase:
With the help of the slide presentation:
*Teacher will introduce students to the architecture and will share history and variety of buildings that exist these days.
*Teacher will talk more about what it takes to build such buildings.
*Teacher introduces students to Mecabricks online program.
*Teacher introduces students to the task.

Activity sheets: N/A

Phase 2

Title: Futuristic architecture

Indoor	Outdoor	Mixed
X		

Phase duration in minutes: 25 minutes

Detailed description of the scenario phase:
*Students will create a futuristic building by using online app.
*Teacher follows creation phase, helps with giving tips.

Activity sheets: N/A

Phase 3

Title: Closing

Indoor	Outdoor	Mixed
X		

Phase duration in minutes: 10 minutes

Detailed description of the scenario phase:
*The teacher together with students has a short reflection on what happened, what students learned, how they can use this knowledge in the future, etc.

Activity sheets: N/A

7. Evaluation Methodology

Open discussion about the topics covered and by following questions such as “What happened?”, “What did we learn today?”, “Where we can use these new methods?”, “How did I feel during the learning process?” etc.

8. Additional Resources for the teacher

- *Slides
- *One pager notes