

TITLE: From stone tools to electronic robots

LEARNING SCENARIO	
School:	Duration (minutes): 90
Teacher:	Students age: 9

Essential Idea:	Robots are electronic devices that automatically perform predetermined actions for humans faster and more accurately than humans. They are present in all human activities.
------------------------	--

Topics:

- Pupils are guided to identify the most appropriate ways of learning and to develop their learning strategies and innovation techniques.

Aims:

- Pupils analyze the application of ICT and its impact on jobs in various areas. They comment on the increased automatization of contemporary jobs.

Outcomes:

- Pupils can analyze a wide range of jobs that require knowledge or use of information and communication technology.

Work forms:

- individual work
- work in pairs

Methods:

- presentation
- discussion
- graphic work

ARTICULATION**Course of action (duration, minutes)****INTRODUCTION**

The teacher starts a discussion about the development of mankind and inventions. From ancient times, people have tried to make their lives simpler and easier. They thought about how and with what they could help themselves, thus the first tools were created. The tools were simple at first, and with development they became more complex.

MAIN PART

The teacher represents the development of inventions.
The teacher invites pupils to actively participate in the discussion:
Give a few examples of antiques and their newer versions: iron, phones, cars, etc.
Do you know any other researchers and scientists who have invented more useful inventions that we have not mentioned so far?

The teacher explains tasks for the pupils, supports and leads them:

Task 1

Think carefully and answer the questions in the textbook.

Task 2

Make a poster (on a computer or on paper) about the scientist and invention of your choice.

Task 3

Design your crazy invention.
Show your invention and the way it will improve the world using blocks in Scratch.
Create a new program.
Choose a background and sprites.
Present your invention using command blocks: Motion, Looks, Events, Controls, Sound.

Save your program.

Pupils solve tasks and present their work and solutions.

Pupils and the teacher discuss and evaluate the presented solutions and works.

CONCLUSION

From ancient times people tried to make their daily work easier, so they came up with various ways and aids that helped them with that.

Today, robots are electronic devices that automatically perform predetermined actions faster and more accurately than humans.

They are present in all human activities.

Methods

presentation
discussion
work on the text
graphic work
interactive exercise /simulation on the computer

Work forms

individual work
work in pairs
group work
frontal work

Material:

- textbook
- paper
- computer, drawing application

Literature

- <https://www.e-sfera.hr/prelistaj-udzbenik/30eba414-5430-430c-84ff-9fa3dd32d10a>

PERSONAL OBSERVATIONS, COMMENTS AND NOTES

