

**TITLE: Mobile device – how did they come to be and what's their future?**

LEARNING SCENARIO	
<b>School:</b>	<b>Duration (minutes):</b> 90
<b>Teacher:</b>	<b>Students age:</b> 15

<b>Essential Idea:</b>	<b>Mobile device – how did they come to be and what's their future?</b>
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**Topics:**

- Pupils have a broad understanding of programming, programs and their role in the modern society. In addition, they understand the importance of programming in influencing and expressing themselves.

**Aims:**

- Pupils design and implement various automation solutions as well as analyze automation solutions for various hardware and software applications.
- Pupils will explore opportunities to develop mobile operating systems via practical examples.

**Outcomes:**

- Pupils become familiar with blockchain technology and its applications, they understand the working principles of solutions that simulate block chains and they get acquainted with simple cryptographic principles.
- Pupils get familiar with mobile devices and their operating systems working principles.

**Work forms:**

- individual work
- work in pairs
- group work

**Methods:**

- presentation
- discussion

- interactive exercise

## ARTICULATION

### Course of action (duration, minutes)

#### INTRODUCTION

Teacher starts discussion with pupils:  
about the ways and possibilities of communication through history.

#### MAIN PART

##### EXERCISE 1

Explore how the first mobile phones appeared. Do their manufacturers exist today? What did the first operating systems (OS-es) look like?

Maybe in your research you've found a mobile phone like this Benefon:



Today we can't even imagine having a device like that. Benefon doesn't even exist anymore, and the OS it used was just like in a fixed phone.

##### EXERCISE 2

Explore what the first smartphones looked like. Do their manufacturers exist today? What did their OS-es look like?

You've probably come upon a device like the Palm Pocket PC and their Palm OS:



This device is a bit more similar to today's smartphones, but it's still far from them, and Palm doesn't exist today.

The first “real” smartphone after which all others were modelled was made by Apple, and of course it was called iPhone. iPhone was the first phone to feature a multi-touch capacitive screen which is today used in all smartphones, and all the smartphones today also kind of look like the first iPhone:



### EXERCISE 3

What do you think: what type of smartphones will we use in the future? Do you think that in a couple of years we will all be wearing smart glasses? How could our lives be improved with a combination of smart glasses and AR (augmented reality) technology?

Students in a small team research, discuss and present the results (exercise 1-3) in a joint presentation.

### CONCLUSION

Pupils and the teacher discuss and evaluate presented solutions.

<b>Methods</b>		<b>Work forms</b>
<i>presentation</i>	<i>interview</i>	<i>individual work</i>
<i>discussion</i>	<i>demonstration</i>	<i>work in pairs</i>
<i>work on the text</i>	<i>role playing</i>	<i>group work</i>
<i>graphic work</i>		<i>frontal work</i>
<i>interactive exercise /simulation on the computer</i>		

**Material:**

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**Literature**

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PERSONAL OBSERVATIONS, COMMENTS AND NOTES