Teaching programming in primary school:
curriculum, didactic methods, textbooks, online support
CodeInnova

Project co-funded by European Union under Erasmus+ Programme

TITLE: What can my smartwatch do?

LEARNING SCENARIO		
School:	*Duration (minutes):*	**90**
Teacher:	*Students age:*	**11**

Essential Idea:	**What are some typical types of computers that we use today?**

Topics:

- Pupils begin to understand how tehnology can improve our everyday life and how it can be used lead to ethical issues.

Aims:

- Better understanding of technology and possibilities of use.

Outcomes:

- Pupils explore, discuss and create a presentation on the latest tehnology (smartwatches).

Work forms:

- individual work
- work in pairs
- group work

Methods:

- presentation
- discussion
- interactive exercise

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ARTICULATION
Course of action (duration, minutes)

INTRODUCTION

Teacher explains and starts discussion with pupils:
Over the last couple of decades computers have become smaller and smaller. Although they always use the same basic components such as the CPU, RAM or storage disks – techological development allows faster and faster computers with smaller and smaller dimensions.

MAIN PART

Topics for discussion

Question: what are some typical types of computers that we use today?

From large desktop computers through smaller laptops, even smaller tablets and even smaller smartphones – today the smallest computers we use are smartwatches.
A smartwatch is a computer with the same parts as any usual tablet or a smartphone, but it's shrinked down to a size small enough to replay your watch.
The most popular smartwatches use two operating systems: WatchOS (Apple Watch) and Wear OS (based on Google's Android, used by dozens of manufacturers).

A smartwach enables many new functions, and some of the more useful are:

- Tracking your life functions.
Most smartwatches can track your heartbeats, while some like te Apple Watch can even give you an ECG image or track the levels of oxygen in your blood.
In case of user passing out, a smartwatch can be set to automatically call a close contact, as well as an ambulance.

- Fitness tracking.
Along with your heartbeat smartwatches can also track how much you exercise every day, how much do you move, how much do you stand, count your footsteps, or maybe track how long you're swimming (they're mostly waterproof).

- Finding your lost phone.
How often has it happened that you left your smartphone somewhere and you couldn't find it? If you have a smartwatch you can just click on „Find my phone" and it will start ringing immediately.

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- Discretely checking your messages and notifications.

In society looking at your phone can be thought of as impolite, because it's distracting your attention from the people you are talking to. If you still want to know who has sent you a message – it's much easier just to glance at the screen of your smartphone.

- Talking.

If you have a smartwatch you don't need to stop an activity like cooking or typing or driving a bicycle in order to take your phone and answer a call. You can just reply to the call from your smartwatch, while the built-in microfone and speaker will be strong enough so that you can comfortably talk withouth having to bring your smartwatch closer to your face.

- Paying in a store.

A smartwatch can easily be connected to an app made for paying on your smartphone. When you need to pay at a store you don't need to find your wallet – you can just make a single click on your smartwatch to engage the paying option and then just bring your smartwatch near to the device for contactless payment at the story.
This is much more simple and safe, as well as faster than carrying a wallet with cards or cash.

- Information about weather, and more.

Yes, you can use your smartwatch to check the time, just like a „real" watch. But you can also check the weather forecast, the current air temperature, the loudness of your surroundings, the next scheduled evenet in your calendar, and the time left on your timer before your lunch is cooked.

Exercise 1

Pupils in pairs or small team explore, discuss and create a presentation on smartwatches.
Essential questions:

Explore what are the most advanced, and what are the most popular smartwatches on the market today?

Is there a certain „best buy" option?

Do you even need a smartwatch, and can it help you in your everyday life?

Teacher explains and give instructions how to solve tasks.

Pupils solve tasks and present their solutions.

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Pupils and teacher discuss and evaluate the presented solutions.

CONCLUSION

A smartwach enables many new and useful functions.

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

Material:

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Literature

PERSONAL OBSERVATIONS, COMMENTS AND NOTES