



## TITLE: How do we use artificial intelligence in everyday life?

### LEARNING SCENARIO

<b>School:</b>	<b>Duration (minutes):</b>	90
<b>Teacher:</b>	<b>Students age:</b>	10+

<b>Essential Idea:</b>	<b>Artificial intelligence in everyday life makes it easier to perform simple and complex tasks.</b>
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#### Topics:

- artificial intelligence, AI applications

#### Aims:

- get to know and understand the concept of artificial intelligence and social and economic implications of AI
- identify examples of the use of artificial intelligence in everyday life: personal assistants, smart devices, navigation, recommendations, social media, web search, etc.

#### Outcomes:

- the ability to recognize examples of artificial intelligence use in everyday life
- development of elements of students' cooperation, exchange of ideas and experiences with the use of technology
- developing the ability of using AI support wisely and consciously

#### Work forms:

- individual work, work in pairs, group work

#### Methods:

- presentation, talk/discussion, graphic work, interactive exercise

### ARTICULATION

The course of action (duration, minutes)

### INTRODUCTION





**The purpose of this course/ lesson is to make** students aware of the changing ways of living under the influence of the newest technology.

Let's get to know artificial intelligence and how artificial intelligence is used in everyday life.

**The teacher announces the topic and starts the discussion:**

- Can a computer or other smart devices think or solve problems?
- Do we use AI?
- How do we use AI? Where?
- Can we use AI for learning?

**Announcement of the goal of the lesson:**

Today we will learn what AI is and how we use it in everyday life.

### MAIN PART

The teacher explains to the students in an interesting and close way what AI is and applications that use AI. The teacher encourages students to be actively involved in the teaching process.

**Topics for discussion:**

Do we use AI? How?

Examples for discussion: Open your phone with face ID, Google search, Social media, Send an email or message, Digital voice assistants, Netflix, Smart home devices, Online shopping recommendations, etc.

Can AI help to do everyday tasks? How?

Can AI be abused? How?

**Applications of AI**

There are numerous, real-world applications of AI systems today. Below are some of the most common examples.

**Speech recognition:** It is also known as automatic speech recognition (ASR), computer speech recognition, or speech-to-text, and it is a capability that uses natural language processing (NLP) to process human speech into a written format. Many mobile devices incorporate speech recognition into their systems to conduct voice search—e.g. Siri—or provide more accessibility around texting.

**Customer service:** Online chatbots are replacing human agents along the customer journey. They answer frequently asked questions (FAQs) around topics, like shipping, or provide personalized advice, cross-selling products, or suggesting sizes for users, changing the way we think about customer engagement across websites and social media platforms. Examples include messaging bots on e-commerce sites with virtual agents, messaging apps, such as Slack and Facebook Messenger, and tasks usually done by virtual assistants and voice assistants.

**Computer vision:** This AI technology enables computers and systems to derive meaningful information from digital images, videos and other visual inputs, and based on those inputs, it can take action. This ability to provide recommendations distinguishes it from image recognition tasks. Powered by convolutional neural networks, computer vision has applications within photo tagging in social media, radiology imaging in healthcare, and self-driving cars within the automotive industry.





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**Recommendation engines:** Using past consumption behavior data, AI algorithms can help to discover data trends that can be used to develop more effective cross-selling strategies. This is used to make relevant add-on recommendations to customers during the checkout process for online retailers.

**Automated stock trading:** Designed to optimize stock portfolios, AI-driven high-frequency trading platforms make thousands or even millions of trades per day without human intervention.

**Graphic works:**

- Students imagine and create their example of AI that helps them in performing daily activities (in performing tasks at school, at home, for hobbies or in their free time).  
What are the characteristics of their fictional product/service?  
How does it make tasks easier?  
Why is it special and how will it win over future users?  
Students draw their product/service and present its characteristics in the form of a mental map. Students can draw on paper or on a computer (Paint 3D, <https://kidmons.com/game/paint-online/>, <https://www.tate.org.uk/kids/games-quizzes/tate-paint> or others) as instructed by the teacher. They present their works to the teacher and students in the class.  
The teacher saves all student work in the classroom portfolio.

**Interactive exercise:**

- Find your way from school to your desired destination!  
Use Google Maps to explore and find ways from school to your desired destination (your favorite place in the mountains, on the coast, fun park, etc.)  
Analyze the obtained results. Which travel options are better and more acceptable to you, and which ones you want to avoid. Why?  
Present your search and the path you have chosen to the teacher and students in the class.
- Organize a class competition:  
<https://www.transum.org/Maths/Investigation/CarPark/>  
[https://www.transum.org/software/SW/magic\\_square/magic\\_square.asp](https://www.transum.org/software/SW/magic_square/magic_square.asp)  
<https://www.chesskid.com>

**CONCLUSION**

Artificial intelligence is used in the daily lives of all of us. It also makes it easier for us to perform various tasks.

**Methods**

*presentation*  
*talk/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**

- Google Maps





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- <https://www.transum.org/Maths/Investigation/CarPark/>
- [https://www.transum.org/software/SW/magic\\_square/magic\\_square.asp](https://www.transum.org/software/SW/magic_square/magic_square.asp)
- <https://www.chesskid.com>

#### **Literature**

- <https://www.forbes.com/sites/bernardmarr/2019/12/16/the-10-best-examples-of-how-ai-is-already-used-in-our-everyday-life/?sh=213f08da1171>
- <https://www.ibm.com/cloud/learn/what-is-artificial-intelligence>
- <https://kids.kiddle.co/>
- <https://www.iotforall.com/8-helpful-everyday-examples-of-artificial-intelligence>

#### PERSONAL OBSERVATIONS, COMMENTS AND NOTES

