**7ai**

| **TITLE: AI Bingo!** |
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| **LEARNING SCENARIO** | | | |
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| ***School:*** | | ***Duration (minutes):*** | 90 |
| ***Teacher:*** |  | ***Students***  ***age:*** | 10 |

| ***Essential Question:*** | **What does “Artificial Intelligence” make you think of?** |
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| ***Topics:*** |
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| * Artificial Intelligence, AI bingo |
| ***Aims:*** |
| * understanding AI in a more practical way * the concept of an algorithm and methods of its notation * algorithms in our everyday life: dealing with problem tasks which require creativity * get to know and understand the concept of artificial intelligence and social and economic implications of AI |
| ***Outcomes:*** |
| * recognize examples of artificial intelligence use in everyday life * basic steps of algorithmic problem solving: defining the problem and the goal to be achieved, analysis of the problem situation, developing a solution, checking the problem solution for sample data, saving the solution in the form of a diagram or program |
| ***Work forms:***   * work in pairs, group work   ***Methods:*** |
| * presentation, talk/discussion, graphic work, interactive exercise |

| **ARTICULATION** |
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| **The course of action (duration, minutes)** |
| **INTRODUCTION** |
| The teacher starts the lesson with a discussion.  **Scenario for discussion**  What do robots have in common?  What do they do? How do robots help us?  Examples:  Cozmo - visual recognition  Alexa/Google home - speech recognition  Are robots the only form of AI?  What about social networks: Instagram, YouTube, Facebook, Google,… ?  How many of you use these?  What do they have in common?  **Announcement of the goal of the lesson:**  Today we will learn what the main task of artificial intelligence is: prediction. How can computers learn? |
| **MAIN PART** |
| Short definition:  AI trying to predict something in the future or something that the data says.  Example of what you predict (weather, what happens in a movie).  What is the dataset?  A dataset is a collection of curated data  Images  Measurements (time, views, inches, etc)  Text  Video recordings!  The dataset contains a lot of separate pieces of data and can be used to train an algorithm with the goal of finding predictable patterns inside the whole dataset.  Isn’t just numbers, weather data vs. online video data (gives you information).  Have you ever collected a dataset?  Artificial intelligence is a kind of algorithm… there are other kinds as well.  A picture containing chart  Description automatically generated  What is Instagram's algorithm trying to pick?  What kinds of ads do you get?  What do you think they are trying to do?  A picture containing text, sign  Description automatically generated  A picture containing text, sign  Description automatically generated  **Interactive exercise:** It is time for AI Bingo!  AI Bingo: Learning by playing ftw. Payne, a researcher at MIT, AI bingo builds on pedagogical research that shows how exposing kids to the way technology works helps develop their interest in STEM and improve their job prospects later on in life.  Instructions:  Students must find a partner who has used an AI system listed on the card and together students must identify the prediction the system is trying to make and the dataset it might use to make that prediction.  The first student to get five squares filled out in a row, diagonal, or column wins (or, for longer play, the first student to get two rows/diagonals/columns).  Worksheet:  A picture containing text, crossword puzzle, receipt  Description automatically generated |
| **CONCLUSION** |
| AI trying to predict something in the future or something that the data says.  The dataset contains a lot of separate pieces of data and can be used to train an algorithm with the goal of finding predictable patterns inside the whole dataset. |

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

| ***Material*** |
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| * [*https://www.technologyreview.com/2019/12/27/131071/ai-mit-bingo-game-to-teach-about-kids-ai/*](https://www.technologyreview.com/2019/12/27/131071/ai-mit-bingo-game-to-teach-about-kids-ai/) * [*https://www.sparklebox.co.uk/previews/8551-8575/sb8554-words-with-ai-bingo.html*](https://www.sparklebox.co.uk/previews/8551-8575/sb8554-words-with-ai-bingo.html) |

| ***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> |
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| **PERSONAL OBSERVATIONS, COMMENTS AND NOTES** |
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