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| **Long-term Plan Unit:** | | **12.1А** | **School:** | NIS AEO Petropavlovsk | | | |
| **Date:** | 02.09.2020 | | **Teacher Name:** | | Е. Жунусов | | |
| **Grade:** | 12 Advanced | | **Number Present:** | |  | **Absent:** |  |
| **Theme of the Lesson:** | | **Artificial Intelligence** | | | | | |

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| **Learning objectives to be achieved during this lesson (Subject Programme Reference)** | | | |
| **Learning**  **Objectives** | 12.4.3.1 describe application of artificial intelligence in industry, education, medicine, gaming industry, society | | |
| **Lesson Objectives** | describe spheres where artificial intelligence is applied: industry, education, medicine, gaming industry, society | | |
| **Success**  **Criteria** | Remember: | Learners get theoretical knowledge about Artificial Intelligence | |
| Understand: | The fields where artificial intelligence is applied | |
| Analyze: | Define the advantages and disadvantages of Artificial Intelligence | |
| Create: | Posts where AI is used | |
| **Language**  **Objectives** | Students can: | | - take part in debates about the advantages and disadvantages of using artificial intelligence  - use terminology in discussing and describing the sphere of application of artificial intelligence |
| Vocabulary: | | * Artificial Intelligence * Machine Learning * Neural Network * Strong AI * Weak AI * Superintelligence * Computer Vision * Deep Learning |
| Language Scaffolding: | | * Artificial intelligence is ... .. and can be applied in the following areas ....... * The advantages of using artificial intelligence are ... .. * The disadvantages of using artificial intelligence are ...... |
| **Values**  **Instilled** | Pair work: Respect for self and other opinions. Collaboration. | | |
| **Cross-curricular**  **Links** | Biology, Mathematics | | |
| **Prior knowledge** | Learners know the basic principles of computer systems from Unit 11.1A. | | |

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| **Differentiation** | **Assessment** | **Health and Safety** |
| Peer feedback. Group discussion and group support. | Peer assessment and group discussion of students’ work. | Encourage students to follow the H&S rules of the department. |

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| **Lesson plan seen by HOD before the lesson** | | | |
| Name: |  | Signature: |  |

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| **Course of the lesson** | | | | | |
| **G -** Group Work | | **I -** Individual Work | **E -** Learner Experiment | **W** – Whole Class Discussion | |
| **D -** Teacher Demonstration | | **F -** Supports Formative Assessment | **T -** Teacher Exposition | **P** – Pair Work | |
| **Planned Timings** | **Planned Activities** | | | | **Resources** |
|  | **Lesson 1** | | | |  |
| 1 min | The teacher shares the link topresentation **on nearpod.com**  [**https://share.nearpod.com/vsph/eCJQ4id9Lu**](https://share.nearpod.com/vsph/eCJQ4id9Lu)  **Editable link (if there is necessary to copy to own library):**  [**https://share.nearpod.com/e/f30JUh5xl9**](https://share.nearpod.com/e/f30JUh5xl9) | | | | **https://share.nearpod.com/vsph/eCJQ4id9Lu** |
| 2 min | **The teacher congratulates students with new school year:**  It’s been a fun summer, but now it is time to meet old school friends and learn new things! Wishing you a wonderful new school year! | | | | Slide 1 |
| 3 min | **The teacher discusses the curriculum for 2020-2021 years** | | | | Slide 2 |
| 5 min | **Brain storming. Collaborating ideas**  The students need to say what they know about Artificial Intelligence by responding to the following questions:   1. What do you know about AI? 2. Where do we use AI? | | | | Slide 3 |
| 1 min | **The teacher introduces the topic** | | | | Slide 4 |
| 2 min | **The teacher and students discuss the assessment criteria and lesson objectives** | | | | Slide 5 |
| 10 min | **The teacher shares the video on YouTube**  [**https://youtu.be/kWmX3pd1f10?t=10**](https://youtu.be/kWmX3pd1f10?t=10)  **The students watch the video and fill the gaps according the video** | | | | Slide 6 |
| 3 min | **The class needs to compare Strong and Weak AI and discuss it** | | | | Slide 7 |
|  | **Lesson 2** | | | |  |
| 7 min | **Consolidation of acquired knowledge by playing game** | | | | Slide 8 |
| 5 min | **The students need to research the fields where we use Artificial Intelligence**  The task is to type 2 examples for each field of using AI  1) Manufacturing  2) Education  3) Health care service  4) Gaming industry  5) Social life | | | | Slide 9 |
| 1 min | **Homework**  [**https://wordwall.net/play/3907/260/820**](https://wordwall.net/play/3907/260/820)  **The students need to choose examples on clouds and put it into correct category (**Manufacturing, Education, Health care service, Gaming industry, Social life**)** | | | | Slide 10  https://wordwall.net/play/3907/260/820 |

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| **Reflection** | |
| *Were the lesson objectives/learning objectives realistic? Did I stick to timings?*  *What changes did I make from my plan and why?* | *Did all learners achieve the LO?*  *Did my planned differentiation work well?*  *If not, why?* |
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| **Summary Evaluation** | |
| What two things went well (consider both teaching and learning)? | |
| 1: |  |
| 2: |  |
| What two things would have improved the lesson (consider both teaching and learning)? | |
| 1: |  |
| 2: |  |
| What have I learned from this lesson about the class or achievements/difficulties of individuals that will inform my next lesson? | |
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