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| **Real life uses of AI – Lesson 3** | | |
| **Learning Objective/s** | * I can identify real life uses of AI and how it can solve problems. | |
| **Keywords** | * Artificial intelligence * Machine learning * Algorithm * Data * Recognising * Understanding | * Predictions * Information * Bias * Ethics * Intelligence * Decisions |
| **You will need** | * Access to YouTube * Laptops/computers | |
| **National curriculum links** | * use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact | |

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| **Activity (inc timing)** | **Description** | **Tips** |
| **1 Recap of AI (5mins)** | * Discussion as a class what is AI and recapping with has been learnt so far. | * A chance to answer any misconceptions. |
| **2 AI in real life (15mins)** | * Look at the video clip all about [Ocado.](https://www.youtube.com/watch?v=R5eJOBj5b2k) * What problem did the people in the warehouse have? How did using technology help to solve it? | * Explain that in the film you just watched, the computer was trained to recognise different features of boxes in the warehouse, and work out whether to use the robot to pick them or not. |
| **3 Recycling using AI (25mins)** | * Introduce this real-life problem to the class. * The people in a recycling centre have a problem. They are spending too much time sorting and separating different types of recycling in the sacks. * Children work in groups to think about what would need to be part of the design. | * What would the robot need? * What data would the system need? * Children use images to demonstrate the different elements that are important in their recycling robot. |
| **3 Training the system (10mins)** | * Pupils take on the role of a machine learning system in a driverless car. * Share with class an image of a scene. Look at the image and circle all of the aspects the car is going to be have to avoid. * Think about all the aspects that the car would have to identify. | * What are all the aspects that the car is going to need to recognise? |
| **Take it further:**  Ask children to design an AI powered solution that can:  Help a robot move around a maze  Improve road safety  Help with household chores | | |