|  |  |  |
| --- | --- | --- |
| **How do AI work – Lesson 2** | | |
| **Learning Objective/s** | * To understand how artificial intelligence works | |
| **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 | |

|  |  |  |
| --- | --- | --- |
| **Activity (inc timing)** | **Description** | **Tips** |
| **1 How does AI learn? (10mins)** | * Share the question "Do you know how AI systems learn to do things like recognise faces or understand speech?" * Using questioning to support ideas and supporting discussion. | * Gather ideas that can be reflected on later in the lesson. * AI systems use algorithms and data to learn and make decisions. An algorithm is a set of step-by-step instructions that tells the computer what to do, and data is the information the AI uses to learn. |
| **2 How to AI’s learn?**  **(10mins)** | * Watch this [YouTube](https://www.youtube.com/watch?v=R9OHn5ZF4Uo) clip about how AI’s learn. * Reflect on the clip and summarise the key points. | * What are the key learning points? |
| **3 Create picture recognition machine learning**  **(30mins)** | * Model to the class using this [website](https://machinelearningforkids.co.uk/) * Share with class they are going to collect data to support the computer recognising images. * Choose different categories to collect images on. | * The children need to have a minimum of five images. * Share that three steps of training AI is:- collecting data, training the model and make predictions. |
| **Take it further:**  How can you make you picture recognition?  Draw conclusions as to what makes AI more accurate | | |