

# Year 6 Artificial Intelligence and Machine Learning Knowledge Organiser

This will be the first unit on artificial intelligence and Machine Learning which the students will have encountered.

Key Learning	Self-Assessment		
	WT	A	WA
I know what misinformation and disinformation means			
I know that there are two types of fake news and can explain what they are.			
I understand how Machine Learning and Artificial Intelligence is being used			
I can explain what Machine Learning and Artificial Intelligence is and how it uses big data			
I can explain how AI and ML uses big data to benefit others			
I can create a Smart Classroom using IBM Watson and Machine Learning			
I can understand the implications and capabilities of AI and ML			



New key words we will use in year 6 'Artificial Intelligence and Machine Learning

**Big Data**- extremely large data sets that may be analysed computationally to reveal patterns, trends, and associations, especially relating to human behaviour and interactions ta that is huge in size

**Misinformation** - is false or inaccurate information

**Disinformation** - is knowingly spreading misinformation

**Deep Fake** - a video of a person in which their face, voice or body has been digitally altered. Typically used maliciously or to spread false information. Although it can be used for good, such as the BBC newsreader to speak in a different language.

**Artificial Intelligence** - At its simplest form, artificial intelligence is a field, which combines computer science and robust datasets, to enable problem-solving like humans

**Machine Learning** - is a subfield of artificial intelligence. The use and development of computer systems that are able to learn and adapt without following explicit instructions, by using algorithms and statistical models to analyse and draw inferences from patterns in data

**Cobot** - a robot intended for direct human robot interaction within a shared space, or where humans and robots are in close proximity working together.

**Watson** - an IBM supercomputer that combines artificial intelligence (AI) and sophisticated analytical software for optimal performance as a "question answering" machine.

**Smart Home** - a living area with connected technology meant to enhance the home. This could include smart thermostats , smart lights , smart plugs or outlets , smart doorbells , and locks , or voice assistants like Google Assistant and Alexa.

## Who uses skills like these?



- Data Scientists using machine learning to take a lead on a number of AI driven solutions and projects
- Machine Learning Engineers involved in build and maintaining self-running software facilities.
- Big Data Engineer to build, develop and optimise data solutions
- Cybersecurity analyst looking for patterns and trends within data and machine learning
- Software Engineer design, develop, test and maintain software systems for ML and AI
- Jobs that don't exist yet!

