# Year 6
# Using Computers
## E-Safety and Digital Literacy

Respect, Believe, Achieve


Year 6
Computers: Past, Present, Future.


Year 6
Machine Learning and Artificial Intelligence

## What do I already know?

1. Understand Computer Networks, Internet and Cloud Computing and how they help us.
2. What is email and how can we use it safely?
3. Understand how and why we collaborate online (including blogging).

## Key Words

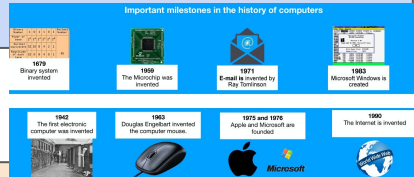| | |
|---|---|
| **Machine learning** | Computers learn new information, which helps them work better and follow new instructions. For example, they can recognise our face or fingerprint each time we unlock our device, making it more secure. Have you also noticed how a tablet or phone suggests words as you are typing? As we type more, the computer learns what words we like to use and suggests better words more suitable us. |
| **Artificial Intelligence** | Computers can be programmed to work by themselves to perform important tasks, such as driverless cars, drones delivering mail or as lifeguards. The computers in these are programmed with the information they need for the task (such as a route they need to take) and they use machine learning to gain more knowledge (artificial intelligence) about the task it is performing. |
| **Sharing** | The internet allows us to post photos and videos online for others to see, this is called sharing. We do not want people we don't know to see personal photos of videos of us or our friends and family so we have to check with a grown up we trust before sharing them online. We would not give a photo of ourselves to a stranger in the real world so we do not do it online either. |

## 1. Computers: Past, Present and Future

Show awareness of how computers and digital technology helps us today. Understand how technology has changed over time and represent it as an interactive timeline. Understand the impact (positive/negative) technological changes have on society. Predict how technology will change in the future.



## 2. Machine Learning

Understand how computers use information to learn by solving new problems and following new instructions. Understand and use examples of machine learning.



## 3. Artificial Intelligence

Understand how artificial intelligence is used to perform tasks often only performed by humans. Discuss and show awareness of potential dangers of AI.



## 4. E-Safety

Watch 'Caught in the Web'. Discuss the number of scenarios including talking to strangers online, cyber-bullying, reporting issues and addiction.