

# Year 9 Computing and Digital Skills Learning Journey

Year 9

## Photoshop

Learn how to apply photo manipulation effects in Photoshop.

## Image Representation

Representing images using binary digits.

## Python Programming

Applying the programming constructs of sequence, selection, and iteration in Python.

Designing programs that use subroutines and lists to store a collection of items.

## Mobile App Development

Using event-driven programming to create an online gaming app.

## Cybersecurity

Identifying how users and organisations can protect themselves from cyberattacks.

## Networks

Investigating the purpose of computer networks and the hardware used to set up a network.  
Explore how the internet works and how data is sent across the internet.

## It's only logical

Recap Binary Conversion  
Learn about different Logic Gates AND, OR, NOT  
Build simple logic circuits

## AI and Machine Learning

Define artificial intelligence and machine learning  
Explore examples of where they are being applied  
Teach a machine how to recognise different types of images  
Discuss moral issues associated with these technologies  
Explore the latest breakthroughs in robotics and the innovative applications of artificial intelligence.

## Developing for the web Team Project

Identify a range of web design rules and the importance of usability design  
Team building task to planning, design, create and testing a website

