



# LDA Digital Information Technology Curriculum Pathway



- Title of unit
- Dean Trust Curriculum Values
- Knowledge: What I will know
- Skill: What I will be able to do
- Enrichment

Workplace

Understand the role of modern technology and its impact on organizations.

Understand the role and impact of data on an organization.

## Digital Working Practices

## Collecting and Interpreting Data

Discuss and explain the benefit and limitations of modern technology on an organisation.

Create a data management system that will allow for informed business decision making.

What makes a good interface

How to plan and design a user interface

Powerful Knowledge

## Design Principles and Project planning

**YEAR 11**

Explain the principles of interface design and create an interface using appropriate planning techniques

Understand Principles of programming

Be able to Recognise types of computer systems

Global Citizenship

**YEAR 10**

## Python Advanced

## How Computers Work

Use Formula, Functions, Conditional formatting, What If and Data Validation in Excel

Discuss how Memory, CPU, Storage devices work in devices  
Discuss how you Represent numbers, characters, images in Binary.

Powerful Knowledge

Ambition & Aspiration

Careers Taster Sessions

**YEAR 9**

## Spreadsheets Project

## Introduction to Data storage

How to select appropriate hardware and software

Basic understanding of how Computers Store Data

Powerful Knowledge

Understand Basic Principles of programming

Ambition & Aspiration

Global Citizenship

## Python Basics

## Algorithms using Flowcharts

Demonstrate Strings and variables, Number and arithmetic operators, print, input, IF selection in python.

Create a flowchart using Start/Stop, Process, Input / Output and Decision symbols

How to Stay Safe online

Know how computers communicate

Ambition & Aspiration

**YEAR 8**

## Using Computers Safely Project

## Networking 1

Understand the principles of File management, Social networking, Keeping data safe, Online safety

Describe the WWW, Internet and Topologies: Bus, Ring, Star

Powerful Knowledge

Cross Curricular

Powerful Knowledge

Principles of programming

How to Stay Safe online

**YEAR 7**

## KS2 Computer Science

**YEAR 6**

Create simple algorithms using graphical programming tools.

Demonstrate basic e-safety

LDA Taster Days

Global Citizenship