# SUBJECT KS3: Year 7

CARDINAL NEWMAN CATHOLIC SCHOOL

**7.4 Topic: Creative Project: Endangered specie Database & Leaflet**

Students will be learn about
- What a database is
- The pros and cons of database
- How to efficiently search a search a database (filters)
- They will carry out research on a chosen endangered specie
- They will create a leaflet and this project gives them the opportunity to learn to use a DTP application like MS Publisher.
- This unit also touches on use of graphics to create a logo for the endangered specie charity

**SUMMER 7:4**

**Assessment**

**7.3Topic: Programming in Scratch**

Students will be learn computer programming, this unit will enable the students to
- Relate computational abstractions and simple programming code to on-screen actions
- Design simple algorithms to solve problems
- Sequence instructions in order to make things happen
- Use variables in programming structures
- Assemble code in procedural blocks
- Use simple Boolean operators in programming code
- Identify and use screen objects in their own Scratch game
- Carry out simple tests to debug their project

**SUMMER 7: 3**

**Assessment**

**7.2 Topic: Understanding Computers**

Students will learn about basic of computers, at the end of the unit they should be able to:
- Distinguish between hardware and software
- Give examples of computer hardware and software
- Draw a block diagram showing CPU, input, output and storage devices
- Name different types of permanent storage device
- Suggest appropriate input and output devices for a simple scenario
- Explain what RAM and ROM are used for
- Show how numbers and text can be represented in binary
- Explain the impact of future technologies

**SPRING 7:2**

**Assessment**

**7.1 Topic: Using computers Safely**

This is the introductory unit in year 7, they will look at the following:
- use basic file management techniques to create folders, save, copy, move, rename and delete files and folders and make backup copies of files
- recognise extensions for common file types such as .doc or .docx, .ppt, .jpg etc
- keep their files in well organised and appropriately named folders
- explain what constitutes a "strong" password for an online account
- describe a code of conduct
- list some of the dangers and drawbacks of social networking sites
- list some possible responses to cyberbullying
- send and reply to emails, send attachments
- use a search engine to find information

**AUTMN 7.1**

# OUR LEARNING JOURNEY