# ALDER COPPICE PRIMARY SCHOOL

## Computing

PRIMARY

### Computer Science (CS) / Information Technology (IT) / Digital Literacy (DL)

**YEAR 1**

CS
- Create simple programs
- Understand what algorithms are

IT
- Use technology purposefully to store digital content
- Use technology purposefully to retrieve digital content
- Use technology purposefully to create digital content

DL
- Keep personal information private
- Recognise common uses of information technology beyond school
- Use technology safely

**YEAR 2**

CS
- Understand that algorithms are implemented as programs on digital devices
- Debug simple algorithms

IT
- Use technology purposefully to manipulate digital content
- Use technology purposefully to organise digital content

DL
- Use technology respectfully
- Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

**YEAR 3**

CS
- Use sequence in programs
- Work with various forms of input and output
- Write programs that accomplish specific goals

IT
- Design and create content
- Collect information
- Use a variety of software to accomplish given goals
- Use search technologies effectively
- Present information

DL
- Identify a range of ways to report concerns about contact
- Use technology responsibly

**YEAR 4**

CS
- Appreciate how search results are selected
- Understand how computer networks can provide multiple services, such as the World Wide Web
- Use logical reasoning to detect and correct errors in programs
- Control of simulate physical systems
- Use repetition in programs
- Design and create programs
- Debug programs that accomplish specific goals

IT
- Present Data
- Collect data
- Evaluate information
- Analyse information
- Select, use and combine internet services
- Select a variety of software to accomplish given goals

DL
- Recognise acceptable and unacceptable behaviour
- Identify a range of ways to report concerns about content
- Understand the opportunities computer networks offer for communication

**YEAR 5**

CS
- Design programs that accomplish specific goals
- Use logical reasoning to explain how some simple algorithms work
- Work with variables
- Use selection in programs
- Solve problems by decomposing them into smaller parts

IT
- Design and create systems
- Evaluate data
- Analyse data
- Select use and combine software on a range of digital devices
- Combine a variety of software to accomplish given goals

DL
- Be discerning in evaluating digital content
- Understand the opportunities computer networks offer for collaboration

**YEAR 6**

CS
- Understand how computer networks can provide multiple services, such as the World Wide Web
- Appreciate how search results are ranked
- Understand computer network, including the internet
- Use logical reasoning to detect and correct error in algorithms

IT
- Understand how search engines rank data
- Evaluate data and information and know that poor data leads to unreliable conclusions
- Perform more complex searches for information

DL
- Use criteria to evaluate the quality of solutions
- Make judgements about digital content, recognising its audience

CS
- Know the difference between physical, wireless and mobile networks
- Understand why computers are used
- Use logical reasoning to predict output
- Use diagrams to express solutions
- Design solutions that use two-way selection