



Owston Park Primary Academy
Computing Skills Progression



	<u>Computer Science</u>	<u>Information Technology</u>	<u>Digital Literacy</u>
<u>Year</u>	<u>Coding and Programming</u>	<u>To manipulate and produce data such as photos, videos, word documents and presentations.</u>	<u>E-Safety</u>
<u>EYFS</u>	<ul style="list-style-type: none">• I can turn on and off a variety of technology that can be found at home and school e.g. iPad, car radio.• I can program a programmable toy e.g. Beebot.• I can follow a series of instructions.• I can use a simple computer game.	<ul style="list-style-type: none">• I can tell you about technology that is used at home and at school e.g. iPads, phones, microwaves, fridges, traffic lights.• I can tell you how I use technology e.g. to play games, to cook food, to make phone calls.• I can move objects on a screen.• I can use the functions in a simple paint program e.g. colour, brushes.	<ul style="list-style-type: none">• I can tell you about websites I use.• I can understand when to go to an adult when I feel unsure about something online.• I can understand how to use technology safely.

KS1

- I can understand algorithms as instructions.
- I can follow a series of instructions carefully.
- I can create a series of instructions (a program).
- I can predict what will happen after reading a sequence of instructions.
- I can identify and remove errors from a sequence of instructions (debug).
- I can follow instructions to move around a course.
- I can name a range of digital devices e.g. iPads, laptops, mobile phones.
- I can use various forms of input devices e.g. keyboard, mouse and camera.

- I can create digital content e.g. a picture in paint, take a photo.
- I can pick and use simple functions within a program e.g. exploring shapes and colour in paint, change text.
- I can save and store digit content.
- I can retrieve digital content I have saved.
- I can use ICT to sort objects according to given criteria e.g. simple branching databases.
- I can use ICT to edit and change the information quickly.
- I can amend work and resave.
- I can manipulate digital content to present or show data e.g. a pictogram.

- I can understand how to use technology safely.
- I can understand how to keep personal information private.
- I can recognise common uses of information technology beyond school.
- I can understand how to use technology respectfully.
- I can identify where to go for help and support when I have concerns about content or contact on the internet or other online technologies.

LKS2

- I can design programs that accomplish specific goals.
- I can write programs that accomplish specific goals.
- I can debug programs to ensure they accomplish specific goals.
- I can use sequences in programs e.g. giving directions around a maze.
- I can use repetition in programs e.g. a spider moving up, down, up, down.
- I can use logical reasoning to explain how some algorithms work.
- I can use logical reasoning to detect and correct errors in algorithms and programs.
- I can use various forms of input devices e.g. keyboard, mouse and camera.
- I can solve problems by decomposing them into smaller parts.

- I can use a search engine effectively.
- I can recognise and use keywords in my searches.
- I can create a questionnaire to collect data from the class.
- I can answer simple questions in bar charts, or pie charts and interpret data.
- I can discuss how different graphs can be used for different purposes.
- I can learn how to use software to create an e-book, brochure or poster on a given subject (Microsoft Word and Publisher).
- I can learn to write and deliver a presentation on a given subject (Microsoft PowerPoint).
- I can select the correct tool from a variety of software.

- I can use technology safely.
- I can use technology respectfully.
- I can use technology responsibly.
- I can recognise acceptable and unacceptable behaviour when using technology.
- I can identify a range of ways to report concerns about content and contact.
- I can understand the opportunities computer networks offer for communication and collaboration.

UKS2

- I can use selection in programs e.g. IF the snake hits the egg it disappears.
- I can solve problems by decomposing them into smaller parts.
- I can work with variables e.g. scoring, time left within a game.
- I can use logical reasoning to explain how some algorithms work.
- I can use logical reasoning to detect and correct errors in algorithms and programs.
- I can understand computer networks and how they provide multiple services.
- I can design programs that accomplish specific goals, including controlling or simulating physical systems e.g. a racing car.
- I can write programs that accomplish specific goals, including controlling or simulating physical systems e.g. a racing car.
- I can debug programs to ensure they accomplish specific goals, including controlling or simulating physical systems e.g. a racing car.
- I can use various forms of input devices e.g. keyboard, mouse and camera.
- I can use various forms of output devices e.g. speakers and printers.

- I can use a search engine effectively.
- I can recognise and use keywords in my searches.
- I can appreciate how search results are selected and ranked.
- I can create a questionnaire to collect data from the class.
- I can create an Excel spreadsheet using information collected in class.
- I can create a database using information collected in class.
- I can use a database to create a range of graphs, and interpret its data.
- I can answer simple questions in bar charts, or pie charts and interpret data.
- I can discuss how different graphs can be used for different purposes.
- I can learn how to use software to create an e-book, brochure or poster on a given subject (Microsoft Word and Publisher).
- I can learn to write and deliver a presentation on a given subject (Microsoft PowerPoint).
- I can select the correct tool from a variety of software.
- I can combine a variety of software to reach a given goal.
- I can justify reasons for my choices and explain why other methods were not appropriate.
- I can use different software types on a range of digital devices.

- I can use technology safely.
- I can use technology respectfully.
- I can use technology responsibly.
- I can recognise acceptable and unacceptable behaviour when using technology.
- I can identify a range of ways to report concerns about content and contact.
- I can understand the opportunities computer networks offer for communication and collaboration.
- I can evaluate digital content to discern its usefulness.