St Clare's
Catholic Primary School

Let Our Light Shine

Computing

Milestones

End of Early Years Foundation Stage	End of Key Stage 1
Nursery Children encouraged to use a range of technology to enhance their learning and play throughout the day. Pupils use digital technology during play. Pupils know to keep themselves safe online by asking an adult for help. **Reception** **Computer science** Pupils program a Beebot with adult support **Information technology** Pupils use iPads to take photographs and edit these with adult support. **Digital Literacy** Pupils know to keep themselves safe online by asking an adult for help. With adult support, pupils communicate online through email. Pupils, with adult support, view maps online.	**Computer Science** Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs. v **Information Technology** Use technology purposefully to create, organise, store, manipulate and retrieve digital content. **Digital Literacy** Recognise common uses of information technology beyond school. Use technology safely and respectfully, keeping personal information private; Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

| End of Lower Key Stage 2 | End of Upper Key Stage 2 |

Computer science	Computer science
Computer science Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration. **Information Technology** Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. **Digital Literacy** Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.	**Computer science** Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration. **Information Technology** Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. **Digital Literacy** Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.