



Ashleigh Primary School Computing National Curriculum Coverage

	Information Technology	Computer Science
Year 1	<p>How can we save memories on a computer/tablet?</p> <ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school 	<p>Can you tell a machine what to do?</p> <ul style="list-style-type: none"> • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs
Year 2	<p>Can we write on a computer?</p> <ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school 	<p>Can we talk to computers?</p> <ul style="list-style-type: none"> • 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
Year 3	<p>Do computers have brains?</p> <ul style="list-style-type: none"> • understand computer networks including the internet; how they can provide multiple services, such as the world wide web • use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 	<p>Can we tell a computer what to do?</p> <ul style="list-style-type: none"> • design, write and debug programs that accomplish specific goals • use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

Year 4	<p>How are films made?</p> <ul style="list-style-type: none"> • 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 	<p>How do electrical appliances work?</p> <ul style="list-style-type: none"> • 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
Year 5	<p>Can computers talk to each other?</p> <ul style="list-style-type: none"> • 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 • 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 	<p>How do alarms work?</p> <ul style="list-style-type: none"> • 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
Year 6	<p>Are computers good at Maths?</p> <ul style="list-style-type: none"> • 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 	<p>How is a computer game made?</p> <ul style="list-style-type: none"> • 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

E-Safety curriculum (taught throughout units and in PSHE lessons):

- 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 (KS1).
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact (KS2).