	CS - foundations	IT - applications	DL - implications
KS1 - 1	Understand what algorithms are Create simple programs	Use technology purposefully to create digital content Use technology purposefully to store digital content Use technology purposefully to retrieve digital content	Use technology safely Keep personal information private Recognise common uses of information technology beyond school
KS1 - 2	Understand that algorithms are implemented as programs on digital devices Understand that programs execute by following precise and unambiguous instructions Debug simple programs Use logical reasoning to predict the behaviour of simple programs	Use technology purposefully to organise digital content Use technology purposefully to manipulate digital content	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
KS2 - 3	Write programs that accomplish specific goals Use sequence in programs Work with various forms of input Work with various forms of output	Use search technologies effectively Use a variety of software to accomplish given goals Collect information Design and create content Present information	Use technology responsibly Identify a range of ways to report concerns about contact
KS2 - 4	Design programs that accomplish specific goals Design and create program Debug programs that accomplish specific goals Use repetition in programs Control or simulate physical systems Use logical reasoning to detect and correct errors in programs Understand how computer networks can provide multiple services, such as the world wide web Appreciate how search results are selected	Select a variety of software to accomplish given goals Select, use and combine internet services Analyse information Evaluate information Collect data Present data	Understand the opportunities computer networks offer for communication Identify a range of ways to report concerns about content Recognize acceptable / unacceptable behaviour
KS2 - 5	Solve problems by decomposing them into smaller parts Use selection in programs Work with variables Use logical reasoning to explain how some simple algorithms work Use logical reasoning to detect and correct errors in algorithms Understand computer networks including the internet Appreciate how search results are ranked	Combine a variety of software to accomplish given goals Select use and combine software on a range of digital devices Analyse data Evaluate data Design and create systems	Understand the opportunities computer networks offer for collaboration Be discerning in evaluating digital content

KS3 - 6	Use computational abstractions Model state of real world problems Use a programming language to solve computational problems Understand simple Boolean logic Understand how numbers can be represented in binary Understand the hardware components that make up computer systems Understand how text can be represented digitally in the form of binary digits Understand how pictures can be represented digitally in the form of binary digits	Undertake creative projects with challenging goals Use multiple applications [Work with] applications across a range of devices Collect data	Understand a range of ways to use technology respectfully Recognise inappropriate content Recognise inappropriate contact Recognise inappropriate conduct Know how to report concerns Reuse digital artefacts for a given audience Attend to usability of digital artefacts Understand a range of ways to use technology safely
KS3 – 7	Evaluate computational abstractions Model state of physical systems Model behaviour of real world problems Understand several key algorithms that reflect computational thinking Use at least one additional programming language (that must be textual) to solve computational problems Make use of appropriate data structures Design modular programs that use procedures or functions Understand uses of Boolean logic in programming Be able to carry out simple operations on binary numbers Understand the software components that make up computer systems Understand how instructions are stored by computer systems Understand how text can be manipulated digitally in the form of binary digits Understand how pictures can be manipulated digitally in the form of binary digits	Combine multiple applications to achieve challenging goals Analyse data Meet the needs of known users	Revise digital artefacts for a given audience Attend to trustworthiness of digital artefacts Protect online identity Protect privacy

8 Mode Use Id utility same Develo proce Under circuit Under comp anoth Under comm Under comm	lerstand how computer systems apponents communicate with one	Create digital artefacts for a given audience Select multiple applications to achieve challenging goals	Repurpose digital artefacts for a given audience Attend to design of digital artefacts Understand a range of ways to use technology securely Understand a range of ways to use technology responsibly
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## https://docs.google.com/document/d/1avlz1AIwdK3sh8Svdux4sbC84x6nMidBjuUzqBx8ZWw/edit

Übersetzung: 2014 national curriculum programmes of study for computing, under the terms of the open government licence 2.0. The organisation in this form is intended to support teachers in forming judgments of their pupils' achievement of and progress towards the statutory attainment targets: "By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study."

The statements for KS1 and KS2 were included in this form in 'Computing in the national curriculum: a guide for primary teachers' available from <u>Computing at School</u> and <u>Naace</u>. The numbering given here is for convenience only.