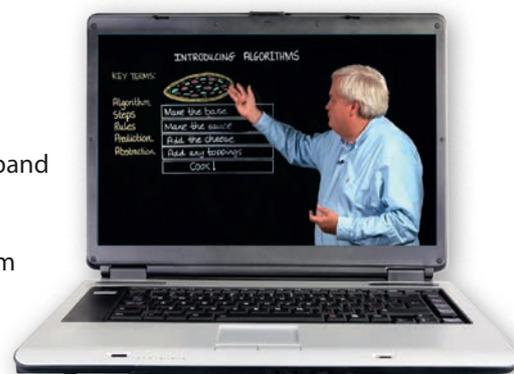


# Switched on Computing knowledge and skills audit form

Identify gaps in your knowledge and skills for computing with this handy audit form taken from QuickStart Computing.

## How to use

- Step 1** Identify how confident you are in each area of the Computing PoS.
- Step 2** In the areas where you are not as confident or where you would like to expand your knowledge and skills, go to the relevant *Switched on Computing* unit.
- Step 3** Watch a short CPD video to gain subject knowledge for the new curriculum



## What is QuickStart Computing?

The QuickStart Computing Guide is a free CPD toolkit for teachers that has been produced by CAS (Computing at School) and funded by the Department for Education and Microsoft. You can download your free copy from [www.quickstartcomputing.co.uk](http://www.quickstartcomputing.co.uk)

	I am not confident I can do this.	I am confident I can do this.	I am very confident I can do this	Switched on Computing unit where this knowledge/skill is covered
<b>Section 1: Computer science</b>				
I can explain what an algorithm is (KS1: S1)*				1.1, 1.2, 1.4, 2.1, 2.2
I can explain how algorithms are implemented as programs on digital devices (KS1: S1)				2.1, 2.2
I can explain how programs execute by following precise and unambiguous instructions (KS1: S1)				1.1, 1.2, 2.1, 2.2
I can create simple programs (KS1: S2)				1.1, 2.1
I can debug simple programs (KS1: S2)				1.1, 2.1
I can design programs that accomplish specific goals (KS2: S1)				3.1, 4.1, 4.2, 5.1, 6.5
I can write programs that accomplish specific goals (KS2: S1)				3.1, 4.1, 5.1, 6.5
I can debug programs that accomplish specific goals (KS2: S1)				3.1, 3.2, 4.1, 4.2, 5.1, 6.5
I can control or simulate physical systems (KS2: S1)				3.2, 4.2
I can solve problems by decomposing them into smaller parts (KS2: S1)				3.1, 3.5, 3.6, 4.1, 4.2, 4.5, 5.1, 5.3, 6.2, 6.5
I can use sequence in programs (KS2: S2)				3.1, 4.1, 4.3, 5.1, 5.3
I can use selection in programs (KS2: S2)				4.1, 4.3, 5.1, 5.3
I can use repetition in programs (KS2: S2)				3.1, 4.1, 4.3, 5.1
I can work with variables (KS2: S2)				3.2, 4.1, 5.1

\*The relevant statement from the Computing PoS has been referenced in brackets.

	I am not confident I can do this.	I am confident I can do this.	I am very confident I can do this	Switched on Computing unit where this knowledge/skill is covered
I can work with various forms of input (KS2: S2)				3.3, 3.5, 4.1, 4.2, 4.6, 6.1
I can work with various forms of output (KS2: S2)				3.1, 3.5, 4.1, 4.2, 4.3, 6.1
I can use logical reasoning to predict what will happen when I run a program (KS1: S3)				1.1, 1.2, 2.1, 2.2
I can use logical reasoning to predict what will happen when I read through computer code (KS1: S3)				1.1, 1.2, 2.1, 2.2
I can use logical reasoning to explain how some algorithms work (KS2: S3)				3.1, 3.2, 4.1, 4.6, 5.1, 5.2, 5.3, 6.2, 6.4, 6.5
I can use logical reasoning to detect errors in algorithms (KS2: S3)				3.1, 4.1, 4.2, 5.1, 6.2
I can use logical reasoning to correct errors in algorithms (KS2: S3)				3.1, 3.2, 4.1, 4.2, 6.2
I can use logical reasoning to detect errors in programs (KS2: S3)				3.1, 3.2, 4.1, 4.2, 5.1
I can use logical reasoning to correct errors in programs (KS2: S3)				3.1, 3.2, 4.1, 4.2
I can explain how computer networks work, including the internet (KS2: S4)				3.3, 3.4, 3.6, 4.4, 6.1
I can explain how computer networks can provide multiple services such as the World Wide Web (KS2: S4)				3.5, 3.6, 4.4, 5.2, 5.5
I can explain how search results are selected (KS2: S5)				5.4
I can explain how search results are ranked (KS2: S5)				6.1
<b>Section 2: Information technology</b>				
I can use technology purposefully to create digital content (KS1: S4)				1.2, 1.3, 1.4, 1.5, 1.6, 2.3, 2.4, 2.5, 2.6
I can use technology purposefully to organise digital content (KS1: S4)				1.2, 1.3, 1.4, 1.5, 1.6, 2.3, 2.4, 2.5, 2.6
I can use technology purposefully to store digital content (KS1: S4)				1.3, 1.5, 1.6, 2.5, 2.6
I can use technology purposefully to retrieve digital content (KS1: S4)				1.2, 1.3, 1.4, 1.5, 1.6, 2.4, 2.5
I can use technology purposefully to manipulate digital content (KS1: S4)				1.2, 1.3, 1.4, 1.6, 2.3, 2.4, 2.5, 2.6
I can explain how to use search technologies effectively (KS2: S5)				4.5, 5.4, 5.6, 6.1
I can select, use and combine a variety of software (including internet services) on a range of digital devices (KS2: S6)				3.3, 4.4, 4.5, 6.1, 6.3, 6.4, 6.6
I can design a range of programs, systems and content that accomplish given goals (KS2: S6)				3.3, 3.6, 5.3, 5.6, 6.1, 6.2, 6.4
I can create a range of programs, systems and content that accomplish given goals (KS2: S6)				4.3, 5.1, 5.5, 6.1, 6.2, 6.6
I can collect, analyse, evaluate and present data (KS2: S6)				3.6, 4.6, 6.1, 6.3
I can collect, analyse, evaluate and present information (KS2: S6)				3.3, 4.4, 4.5, 4.6, 5.4, 5.5, 5.6, 6.1, 6.3
<b>Section 3: Digital literacy</b>				
I can discuss common uses of information technology beyond school (KS1: S5)				1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.2, 2.3, 2.4, 2.5, 2.6
I can explain how to use technology safely (KS1: S6)				1.6, 2.2, 2.5, 3.1, 3.3, 3.4, 3.5, 4.4, 4.5, 5.2, 5.4, 5.5, 6.2
I can explain how to use technology respectfully (KS1: S6)				1.3, 1.4, 1.5, 1.6, 2.2, 2.4, 2.5, 3.5, 3.6, 4.4, 4.5, 5.4, 5.5, 6.2
I can explain how to use technology responsibly (KS2: S7)				3.3, 3.4, 3.5, 3.6, 4.4, 4.5, 5.2, 5.4, 5.5, 6.2, 6.6
I can explain how to keep personal information private (KS1: S6)				1.4, 2.3
I can explain where to go for help and support when pupils have concerns about content or contact (KS1: S6)				1.3, 1.4, 2.2, 2.3, 2.4, 2.5, 3.4, 3.5, 5.4, 5.5
I can discuss the difference between acceptable and unacceptable behaviour online (KS2: S7)				3.3, 3.4, 4.3, 4.5, 5.4, 5.5, 6.2, 6.3, 6.4, 6.6
I understand what opportunities computer networks offer for communication and collaboration (KS2: S4)				3.5, 3.6, 4.3, 4.5, 5.2, 5.4, 5.5
I can explain how to be discerning in evaluating digital content (KS2: S5)				3.1, 3.5, 3.6, 4.3, 4.5, 5.3, 5.4, 5.5, 6.1, 6.2, 6.4