KS2 Knowledge and Skills - Computing

Knowledge and Skills	Year/Topic
Aims	
Can understand and apply the fundamental	
principles and concepts of computer science,	
including abstraction, logic, algorithms and data	
representation	
Can analyse problems in computational terms,	
and have repeated practical experience of	
writing computer programs in order to solve	
such problems	
Can evaluate and apply information technology,	
including new or unfamiliar technologies,	
analytically to solve problems	
Are responsible, competent, confident and	
creative users of information and	
communication technology	
Pupils Should Be Taught To:	
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	
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	
Use technology safely, respectfully and	
responsibly; recognise	
acceptable/unacceptable behaviour; identify a	
range of ways to report concerns about content	
and contact	