CURRICULUM ALIGNMENT GUIDE
Computing programmes of study:
National curriculum in England
KEY STAGE 2

100 Ideas for Secondary Teachers:

Outstanding Computing Lessons

INTRODUCTION

100 ideas: Outstanding Computing Lessons is a collection of 100 practical, tried-and-tested ideas for teaching computing. It is aimed at computing / ICT teachers of all levels, whether specialist or non-specialist, newly qualified or experienced.

For more information on 100 Ideas: Outstanding Computing Lessons and to find additional education resources and supporting materials, including more than 50 free worksheets to accompany the activities in the book, visit: teachwithict.com/100ideas

10 sample activities can be downloaded for free at teachwithict.com/bonus

KEY STAGE 2

STANDARD	DESCRIPTION	ACTIVITY
2.1	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Idea: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 42, 43, 44, 45, 46, 47, 50, 55, 83, 87, 90, 93, 94, 96, 97, 99, 105, 107, 108, 109.
2.2	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.	Idea: 3, 8, 10, 11, 56, 83, 87, 90, 93, 94, 96, 97, 99, 108.
2.3	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Idea: 2, 5, 6, 7, 9, 42, 43, 44, 45, 46, 47, 50, 51, 83, 87, 9094, 96, 97, 99, 107, 109.
2.4	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.	Idea: 54, 61.
2.5	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.	Idea: 24.
2.6	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.	Idea: 26, 28, 30, 31, 32, 34, 69, 71, 73, 74, 93, 100.
2.7	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Idea: 24, 25, 27, 29, 33, 105.