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coding and build on their*

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*skills as they progress through the book. From writing simple coding instructions using Scratch software, to learning the coding skills to create your own computer game and even design your own website,*

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*vocabulary and programming quizzes at the end of each challenge. Supporting STEM education initiatives, computer coding teaches kids how to think creatively, work collaboratively, and reason systematically, and*

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like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After

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the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring,

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like algorithm design,  
complexity of algorithms and  
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uses C# language and Visual  
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computer skills in a new and innovative way. Supporting STEM education initiatives, computer coding teaches kids how to think creatively, work collaboratively, and reason systematically, and is quickly becoming a



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***They will discover the fundamentals of computer programming and learn to code through a blend of coding theory and the practical task of building computer games***

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***themselves. The reason coding theory is taught through practical tasks is so that young programmers don't just learn how computer code works - they learn why it's done that way.***

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programming quizzes at the end of each project.

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