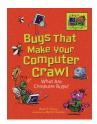
Algorithms & Programming

Grades K-4 VA SOL Computer Science Resources



How to Code in 10 Easy Lessons by Sean McManus

Provides an introduction to computer programming using Scratch software and creating web pages using HTML in ten lessons that each introduce a different coding skill.



Bugs That Make Your Computer Crawl: What are Computer Bugs?

by Brian P. Cleary

Don't swat that bug--fix it! The CATegorical cats offer a fun and accessible introduction to computer bugs.



25 Scratch 3 games for Kids: A Playful Guide to Coding by Max Wainewright

An introduction to the basics of programming with instructions to create 25 different games that teach core coding fundamentals such as loops, variables, and functions, as well as open-ended exercises.



How to Code a Sandcastle by Josh Funk

Pearl and her trusty rust-proof robot, Pascal, need to build a sandcastle before summer vacation is over, and they're going to do it using code.



Code Monkeys Write Algorithms

by John Wood

Find out how code monkeys build sets of instructions called algorithms using flow charts.



March of the Mini Beasts by Ada Hopper

Three whiz-kid from a scientifically inclined family, known as the DATA Set, are thrown into a madcap adventure when they befriend a mad scientist whose latest invention causes toys to turn into monsters.

CHECK OUT THESE BOOKS WITH A LIBRARY CARD!

Ages 5+ that live or work in Clarke or Frederick Counties or Winchester City in Virginia are eligible to get a free library card. Start your application <u>here.</u>



Handley Regional Library

100 W Piccadilly St Winchester, Virginia 22601 (540) 662-9041 https://www.handleyregional.org/

Algorithms & Programming

Grades K-4 VA SOL Computer Science Resources



How to Code in 10 Easy Lessons by Sean McManus

Provides an introduction to computer programming using Scratch software and creating web pages using HTML in ten lessons that each introduce a different coding skill.



Bugs That Make Your Computer Crawl: What are Computer Bugs?

by Brian P. Cleary

Don't swat that bug--fix it! The CATegorical cats offer a fun and accessible introduction to computer bugs.



25 Scratch 3 games for Kids: A Playful Guide to Coding by Max Wainewright

An introduction to the basics of programming with instructions to create 25 different games that teach core coding fundamentals such as loops, variables, and functions, as well as open-ended exercises.



How to Code a Sandcastle by Josh Funk

Pearl and her trusty rust-proof robot, Pascal, need to build a sandcastle before summer vacation is over, and they're going to do it using code.



Code Monkeys Write Algorithms

hoopia

by John Wood

Find out how code monkeys build sets of instructions called algorithms using flow charts.



March of the Mini Beasts by Ada Hopper

Three whiz-kid from a scientifically inclined family, known as the DATA Set, are thrown into a madcap adventure when they befriend a mad scientist whose latest invention causes toys to turn into monsters.

CHECK OUT THESE BOOKS WITH A LIBRARY CARD!

Ages 5+ that live or work in Clarke or Frederick Counties or Winchester City in Virginia are eligible to get a free library card. Start your application *here*.



100 W Piccadilly St Winchester, Virginia 22601 (540) 662-9041 https://www.handleyregional.org/

Algorithms & Programming

Grades 5-8 VA SOL Computer Science Resources



Get Codina!: Learn HTML, CSS, and JavaScript and Build a Website, App' and Game by Young Rewired State

An introduction to computer programming explains how to build websites, applications, and games using HTML, CSS, and JavaScript.



Help Your Kids with Computer Science

by Inc. Dorling Kindersley

This visual guide to modern digital life uses diagrams and colorful graphics to show children everything they need to know about how computers and the internet work, as well as help them understand how

to stay safe online.



Creating a Web Site: Design and Build Your First Site!

by Greg Rickaby

You'll learn all the HTML and CSS you need to make your site look and act the way you want it to, and you'll learn how to add video, images, widgets, and more to make the design your very own!

Blue Ridge Download Co



Girls Who Code: Learn to Code and Change the World

by Reshma Saujani

An illustrated introduction to the relevance of coding that shares down-to-earth explanations about coding principles and real-life stories of coding pioneers.



Steam Guides in App Development bu Ruth M. Kirk

We use apps in our smart phones and tablets for many purposes. But did you know that people with varied talents work hard to develop them? Learn about this exciting world and the role you might be able to play in it.



Code a Minecraft Mod in Javascript Step by Step

by Joshua Romphf

Starting off with brainteasers and working up to real coding, these fun and exciting activities will teach everything needed to know how to write a brand new mod.

CHECK OUT THESE BOOKS WITH A LIBRARY CARD!

Ages 5+ that live or work in Clarke or Frederick Counties or Winchester City in Virginia are eligible to get a free library card. Start your application here.

Algorithms & Programming

Grades 5-8 VA SOL Computer Science Resources



Get Codina!: Learn HTML, CSS, and JavaScript and Build a Website, App' and Game by Young Rewired State

An introduction to computer programming explains how to build websites, applications, and games using HTML, CSS, and JavaScript.



Help Your Kids with Computer Science

by Inc. Dorling Kindersley

This visual guide to modern digital life uses diagrams and colorful graphics to show children everything they need to know about how computers and the internet work, as well as help them understand how

to stay safe online.



Creating a Web Site: Design and Build Your First Site!

by Greg Rickaby

You'll learn all the HTML and CSS you need to make your site look and act the way you want it to, and you'll learn how to add video, images, widgets, and more to make the design your very own!

Blue Ridge Download Co



Girls Who Code: Learn to Code and Change the World by Reshma Saujani

An illustrated introduction to the relevance of coding that shares down-to-earth explanations about coding principles and real-life stories of coding pioneers.



Steam Guides in App Development bu Ruth M. Kirk

We use apps in our smart phones and tablets for many purposes. But did you know that people with varied talents work hard to develop them? Learn about this exciting world and the role you might be able to play in it.



Code a Minecraft Mod in Javascript Step by Step

by Joshua Romphf

Starting off with brainteasers and working up to real coding, these fun and exciting activities will teach everything needed to know how to write a brand new mod.

CHECK OUT THESE BOOKS WITH A LIBRARY CARD!

Ages 5+ that live or work in Clarke or Frederick Counties or Winchester City in Virginia are eligible to get a free library card. Start your application here.