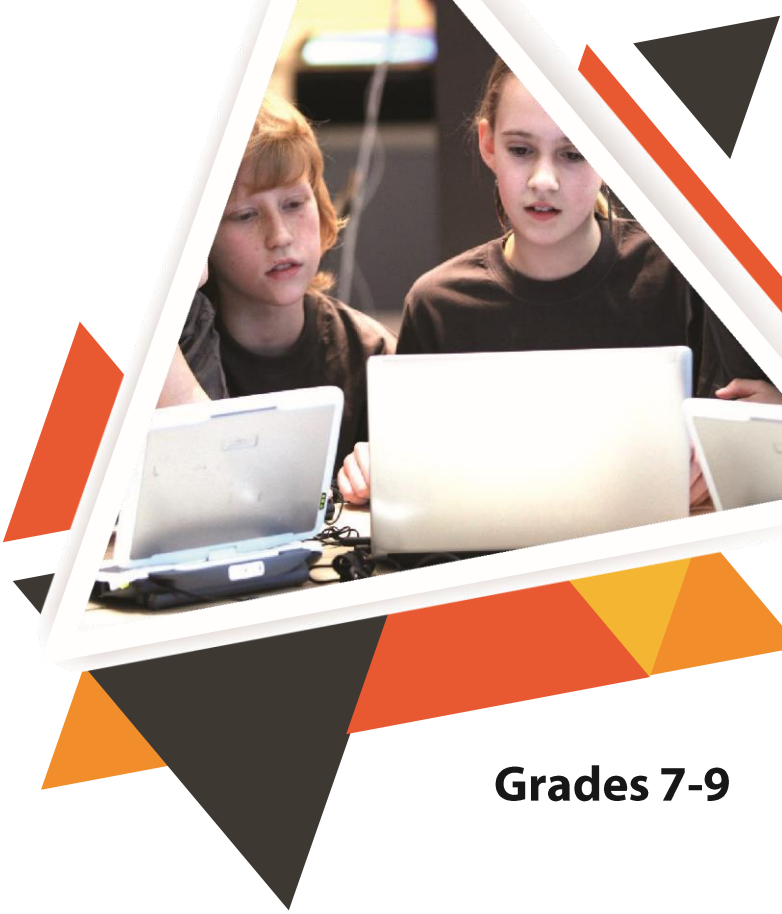
Comprehensive Computer Science Education



Grades 7-9

1st YEAR

PC Fundamentals – Advanced level
Learn the advanced topics of file management and operating systems administration. Work with Windows, Linux, Android, and iOS. Become a professional user of office software.

Raster Graphics and Digital Photo (Adobe Photoshop and Adobe Lightroom)
Explore the most popular design programs. Learn the fundamentals of professional photography, editing, and post-processing of digital images.

Programming Basics: Python and Raspberry Pi
Start your journey into classic programming. Combine your knowledge and skills to program a personal mini-computer.

Lego Robotics – Advanced level
Build advanced level robots. Combine different sensors to perform complex tasks. Boost your team-building skills to solve a variety of challenging problems.

2nd YEAR

Vector Graphics and Digital Publishing (Adobe Illustrator and Adobe InDesign)
Learn the industry-standard vector graphics editor. Make a professional design and layout for digital and printed publishing.

Animation and Video Game Design (Adobe Animate)
Create interactive animation and games using Action Script. Use HTML5 Canvas, SVG, and WebGL options to improve your Web site design.

Web Programming: HTML, CSS and Java Script
Learn the basics of front-end development and build your own web site. Create and integrate media and interactive content into your web site.

Lego Robotics – Master level
Learn advanced mechanics. Design and program robots for a wide spectrum of tasks requiring adaptive behavior and the optimal algorithms.

3rd YEAR

Video Processing and Editing (Adobe Premiere and Adobe After Effects)
Cut, process, and edit video data. Create your own clips and trailers. Add professional effects.

3D Character Design and 3D Printing
Model composite 3D objects. Design and apply textures. Print out 3D prototypes. Incorporate your 3D objects within the other products.

Game Development (Unity, C#)
Use modern game engine to build 2D and 3D games. Learn C# basics to automate game scripting.

Arduino Robotics and C basics
Learn advanced low-level programming of Arduino robots using classic procedural programming with C language. Build advanced gadgets. Control and manage your devices via messaging protocols. Explore the Internet of Things.

Hardware Advanced
Learn computer components. Take apart a PC and put it back together; troubleshoot common issues. Understand the hardware market to buy or update your PC components.

STEP Computer ACADEMY

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