CODE NINJAS®
Mount Pleasant

Coding and Computational Thinking with LEGO® SPIKE Prime

ADDLESTONE HEBREW ACADEMY

Join Code Ninjas for an exciting afterschool program. This innovative program developed by Carnegie Mellon University (global leader in computer science and robotics) is designed to ignite your child's passion for STEM by combining the creativity of LEGO® building with the power of coding and computational thinking. Perfect for young engineers and aspiring programmers, this program offers a hands-on, interactive experience that will keep kids engaged and eager to learn.

What to Expect:

- **Hands-On Learning:** Kids will dive into the world of coding and robotics using LEGO® SPIKE Prime sets, building and programming their own robots to complete various challenges.
- **Fun and Engaging Projects:** Each session features new and exciting projects that encourage creativity, problem-solving, and teamwork. From building simple machines to creating complex robotic systems, there's always something new to explore.
- **Foundations of Coding:** Through block-based coding, children will learn fundamental programming concepts such as loops, conditionals, and variables, all while having fun and seeing their creations come to life.
- **Develop Computational Thinking:** Our curriculum is designed to foster computational thinking skills, helping kids break down problems, recognize patterns, and develop solutions in a logical and efficient manner.
- **Experienced Instructors:** Our Code Senseis® are experienced and passionate about STEM education, providing personalized guidance and support to ensure every child succeeds and has fun.

Program Details:

- **Ages:** Suitable for kids aged 7-14
- **Schedule:** Thursdays from 3:45PM to 4:45PM
- **Cost:** 5 equal monthly payments of $90

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CODE NINJAS®

iMPACT™

As Code Ninjas continues to help create "A WORLD WHERE KIDS WRITE THE CODE," we are so excited to present learning platform, IMPACT.

What exactly is IMPACT?

IMPACT is our new education platform that is unlike anything else on the market. IMPACT is designed specifically to help your child learn valuable coding and computer science skills, in a fun, interactive and engaging way. The cherry on top, we have partnered with Microsoft MakeCode to bring the best in the industry to your child in order to ensure they have the resources to build the skills they need to succeed.

At our core, we Code Ninjas believe in the power of playful project-based learning -- IMPACT will allow just that! Our powerful learning algorithms assess your child's needs and customize a learning path personalized to them and their needs. They care about dinosaurs today, awesome! They care about racecars tomorrow, amazing! The content is tailored to their interests to keep them challenged, engaged, learning, and having fun!

We're committed to empowering the next generation of young coders and providing them with the skills they need to succeed in the digital age - and this is just the beginning of what's to come.

Samples of IMPACT Interface

PATH OF ENLIGHTENMENT

BLOCK CODING

WHITE BELT
Introduction to IMPACT & Coding with Blocks
Begin your journey using blocks to learn basic coding skills as you create your own projects.

YELLOW BELT
Advanced Coding Skills with Blocks
Continue your journey using blocks to learn more advanced coding skills as you use tilemaps to create your own projects.

ORANGE BELT
Transition to Coding with JavaScript
Use the coding skills you've already learned as you explore how to code your own projects in JavaScript.

JAVASCRIPT

GREEN BELT
Intermediate Coding with JavaScript
Journey deeper into coding with JavaScript as you use tilemaps to create more advanced projects.

BLUE BELT
Advanced Coding with JavaScript
Show everything you've learned about coding with JavaScript as you create complex projects.

PURPLE BELT
Professional Development Environment
Concepts: Unity interface, intermediate game design concepts, custom animations, foundations of game-building in Unity.

C#

BROWN BELT
Advanced Programming
Concepts: Meshes and assets, ray casting built in Unity tools, object-oriented programming principles using C#

RED BELT
Advanced Game Design
Concepts: Scene management, world design, game mechanics, using the Unity Asset Store.

BLACK BELT
Custom Game Development from Concept to Delivery
Concepts: Storyboarding, planning, prototyping, playtesting, publishing.

CODE NINJAS IMPACT STANDARDS ALIGNMENT OVERVIEW

Our programs are designed to follow the Computer Science Teachers Association (CSTA) Computer Science Standards, which have gained worldwide recognition. In the United States, state standards for computer science education are largely based on the CSTA standards. Similarly, Canada Learning Code is developing a framework that closely resembles the CSTA CS Standards.

Code Ninjas Program	Age Range	Programming Language	Tool	CSTA Standards Band	UK Key Stages
JR	5-7	Graphic Blocks	ScratchJr	1A	KS1
CREATE White / Yellow	8-9	Blocks	MakeCode Arcade Blocks	1B	KS2
Orange / Green / Blue	10-11	JavaScript (text)	MakeCode Arcade JavaScript	1B / 2	KS2
Purple / Brown / Red / Black	12-14	C# (text)	Unity	2 / 3A	KS3

Make a positive IMPACT in your child's future, together!

At Code Ninjas, we value communication and believe in empowering parents like you. That's why we are thrilled to introduce our latest feature: weekly progress updates through our IMPACT platform. Every Thursday of the week, you will receive email reports highlighting your child's coding accomplishments, completed projects, and mastery of essential learning concepts.

These updates go beyond just stats. Our dedicated Code Senseis provide personalized comments on your child's end-of-level projects, offering valuable insights into their progress and areas of excellence, strengthening the partnership between you, your child, and the Code Ninjas team.

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MT PLEASANT

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