CODING COURSE

Coding
Code Creators

Inspiring the Future of STEM

Cybersecurity: Cyber Detectives

Our "Code Creators" program offers middle-school girls an engaging introduction to computational thinking, coding, and creative problem-solving skills. Hands-on activities guide them through designing, developing, and testing their own applications.

Program Description

- Decompose problems and design solutions using pseudo-codes and algorithms.
- Enable student progression from block-based logic to advanced text-based programming.
- Introduce underlying technology (systems, data, networks), and programming concepts (e.g., variables, loops, ...).
- Emphasize Hands-on projects to build persistence, collaboration, and tech skills.
- Highlights women role-models in STEM to encourage exploration of STEM careers.

Program Structure

- **After-school Club (1.5-2 hrs)**
- **Women in STEM**
- **Self-paced Module**
- **Competitions and Hackathons**
- **Capstone Project**
- **Field Trip**
- **Guest Speaker(s)**

New Jersey Science Standards

- **8.1.8.AP.1:** Computational Thinking and Problem-Solving
- **8.1.8.AP.3:** Algorithms and Programming
- **8.1.8.AP.6:** Iterative Process of Improving a Solution

Learn more about JerseySTEM

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