



BIOLOGY

Biology The Health Squad

Inspiring the Future of STEM

Biology: The Health Squad

Our “The Health Squad” program introduces middle school girls to how living things work and how the human body defends itself.

Program Description

- **Cells and Living Systems:** What they are made of, and how scientists observe what they cannot see.
- **Energy and Ecosystems:** Photosynthesis, food webs, and how organisms depend on one another.
- **Viruses and Infections:** What a virus is, how it spreads, and why it makes us sick.
- **Immunity and Vaccines:** How the body fights back, and how vaccine strain the immune system.
- **Prevention and Community Health:** Hygiene, herd immunity, and the microbiome.

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

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| • MS-LS1: Molecules to Organisms | • MS-ESS1: Earth's Place in Universe |
| • MS-LS2: Ecosystems | • MS-ESS3: Earth/Human Activity |
| • MS-LS3: Genetics | • MS-ETS1: Engineering Design |
| • MS-LS4: Biological Evolution | • MS-PS2: Engineering Design |



JerseySTEM | Bridging Gender, Innovation, and Opportunity Gaps for Middle School Girls in New Jersey

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