



**SciGirls Season Five:
New Episodes Celebrating Computer Science!**

Episode #501: High Tech Tide

Florida SciGirls Laila, Claire and Byrne make a splash, uniting with marine biologists to digitally track spotted eagle rays in the Gulf of Mexico. They share their data in a livestream presentation, and explore the incredible Mote Marine Laboratory!

Curriculum: After watching the program, viewers will be able to: 1. recognize how teamwork can help make a project successful; 2. understand how data can be used to answer scientific questions; and 3. understand how computer programs and coding can help make big jobs easier.

Episode #502: Game Changers

Game on for Jolie and her pals! Teaming up with professional game designers, the SciGirls create a hands-on board game adventure and code an app, then share the fun at a professional game makers showcase.

Curriculum: After watching the program, viewers will be able to: 1. recognize how teamwork can help make a project successful; 2. understand how games are developed; 3. understand how to gather feedback and use it to make changes to a design; and 4. identify strategies to problem solve when encountering challenges.

Episode #503: Super Sensors

SciGirls in Los Angeles reach for the stars! Inspired by high-tech NASA sensor technology, Rihighna and her friends design and code wildlife cameras to capture images of the animals in their neighborhood.

Curriculum: After watching the program, viewers will be able to: 1. recognize how teamwork can help make a project successful; 2. understand the importance of camera traps for wildlife biologists to learn about animal behavior; 3. Learn how NASA uses technology to collect data from satellites in space; and 4. learn about the process of building and programming a camera to collect data.

Episode #504: Cartoon Coders

Fueled by their passion for technology and social justice, Kanah, Margaret and Eh Lay create a computer animation that urges kids to take action in their own communities.

Curriculum: After watching the program, viewers will be able to: recognize how teamwork can help make a project successful; 2. identify ways that STEM can be used to solve real world problems; 3. learn about the process of animation using coding; and 4. identify strategies to problem solve when encountering challenges.

Episode #505: Code Concert



Britanee, Estrella, and Saabiriinn collaborate with singers on a concert for Deaf and hearing audiences. They code software that “paints with music,” creating a stunning visual display of a live vocal performance.

Curriculum: After watching the program, viewers will be able to: recognize how teamwork can help make a project successful; 2. learn about how computer programs and coding can be used to make visual artwork; and 3. learn about pseudocode and the planning process before you create a computer program.

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ABOUT TWIN CITIES PBS (TPT)

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ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation is an independent federal agency that supports education and research across all fields of science, technology, engineering and math (STEM). In addition to providing major support for SciGirls, the NSF supports other science and math programs on PBS and pbskids.org, including *DragonflyTV*, *Peg + Cat*, *Design Squad Nation* and *Plum Landing*. Click [here](#) for more information on NSF activities.