

Grades: 4-5

SciGirls Stories, “Real Women, Real Jobs”

Inspiring real-life stories for all ages featuring successful women in STEM careers (Science, Technology, Engineering and Math). These are the innovators, problem-solvers and dreamers who are passionate about their work, hobbies, families and helping to make the world a better place. They motivate girls to pursue all kinds of interests and career paths.

After watching this episode, choose from the following questions and/or tasks to extend your learning

Question Box 1

- Cite evidence from the video that demonstrates features/characteristics of the successful women in STEM careers.
- What did you learn after watching this program?
- What is the program’s purpose? How do you know?
- What are the key details in SciGirls Stories: Real Women, Real Jobs?
- What is a process engineer?
- What does Victoria mean when she says, “You have to combine an analytical mind and a creative mind” to do process engineering?
- How does asking questions help in process engineering?
- What is a mentor?
- How does science technology and mathematics help in a firefighting career?
- What is a software engineer?
- Why is it important to think about the users or audience when building software for others?
- What is a design engineer? How does creativity help in this career?
- What does a chemist do in product engineering?
- How is chemistry in everything we do?
- What is metal fabrication? What type of protective wear is required to do this job?

Question Box 2

- How much did you know about the subject before the show started?
- How do you feel about “SciGirls Stories: Real Women, Real Jobs”?
- What do you think are the advantages and disadvantages of growing up multicultural?
- If you could be a mentor, what expertise would you offer to others?
- In this episode, all the women spoke about the opportunity to work collaboratively.

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What projects have you worked on collaboratively with others? Do you think it is beneficial? Why or why not?

- From the careers presented in this episode which one is of most interest to you?

Box 3 (Tasks)

- Make a connection between the women featured in this episode.
 1. Attributes
 2. Motivation
 3. Education
 4. Childhood
 5. Family Support
 6. Challenges
 7. What advice would they give to others?
- Research a STEM job described in this video and the education it takes to get the job.
- Describe Critical Thinking and how that is connected to STEM fields.

Box 4 (Enrichment)

- Research aerodynamic bikes [Power vs aerodynamics: how to get the balance right](#)
- Watch the video: [How to draw a bike](#).
- Make a list of mathematical tools needed to draw a bike.
- Using the necessary tools, design and draw your own bike. Draw your blueprint to scale.
- Think of your dream job and describe how studying Science, Technology, Math and Engineering would help you in that job.
- Current research suggests that today's high school graduate will have at least 10-15 careers in their lifetime. Discuss how STEM education could help transition from job to job.

Box 5 (Extend/Real-Life)

- Explore the limitless possibilities of STEM careers by completing the Career Exploration Activity found at this link: <https://t.co/j6l3DdeDH7?amp=1>