



X-STEM All Access - Coolest Minds in STEM

[Astronaut Zena Cardman](#) and

[Dr. Moogega Cooper](#)

September 24, 2021

[Watch Here](#)

TEACHER & PARENT TIPS:

Prior to the video, ask students to read the speaker biographies on our [website](#). To keep students engaged during the session, we have listed some key facts to look for during the talk, listed below. In addition, ask the students to answer a list of follow-up questions for a deeper analysis of the subject matter. Some sample questions are listed on page 2 of this worksheet.

Looking for more talks? Our video library filters the videos by subject matter to make the selection process easier for your lesson plans. Access the video library here:

[X-STEM All Access Videos](#) | [X-STEM Symposium Videos](#) | [Festival Videos](#)

ENGAGEMENT & FACT QUESTIONS:

[Zena Cardman, NASA Astronaut- read her biography before the talk here](#)

Where do astronauts do their space walk training while on earth?

What are some things astronauts study while on the International Space Station?

What is Zena's favorite field of study?

[Dr. Moogega Cooper, Planetary Protection Engineer -read her biography before the talk here.](#)

By what year does the Artemis program anticipate having astronauts on the moon?

What is the purpose of planetary protection?

What was the Jezero Crater on Mars billions of years ago?



REFLECTION AND ANALYSIS QUESTIONS:

Who did you learn about in this session? What is his/her name and what kind of work does he/she do?

Why is this speaker's work important?

How does his/her work have a direct impact on your life?

Tell me what you remember most from the speaker's presentation? What did you find most interesting?

What other kinds of jobs can you think of in his/her area of work?

Are you interested in learning more about this topic?

Can you predict what will change about this topic in the future? How will this impact your life?

If you could ask this speaker anything, what would it be?

Pick one fact from this talk and do your own follow up research. Provide a list of what you have learned.

BONUS Options:

Both Astronaut Cardman and Dr. Cooper talked about teamwork being essential to their work, how do you think working together with people of all backgrounds furthers scientific research?

Both Astronaut Cardman and Dr. Cooper talked about the influence mentors, teachers, and role models had on their lives. Who is your role model for your future career? Is there someone in your life who could mentor you or someone you can bring into your life as a mentor to further your goals?