

X-STEM All Access – *Exploring Our Planet*

[Dr. David Gallo](#) and [Jill Heinerth](#)

May 15, 2020

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 Videos](#) | [Festival Videos](#)

Note: If you or your students would like to engage in the chat feature during the presentations to ask speakers questions during the live talk, be sure to click on the “chat” icon on the upper right hand side.

ENGAGEMENT & FACT QUESTIONS:

Dr. David Gallo – read his biography before the talk [here](#)

What percentage (%) of the earth is covered by oceans?

Why are oceans critical to life on earth?

What percentage (%) of the oceans have been explored?

Why is Dr. Gallo’s work important?

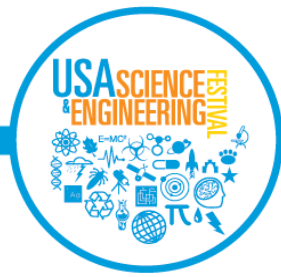
Jill Heinerth – read her biography before the talk [here](#)

What is Jill’s underwater life support system called?

Life on earth requires photosynthesis. True or False

Groundwater is stored underground in an _____.

What did you find most interesting about Jill’s presentation?



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:

Research oceanographer Jacques Cousteau and discover what he invented (along with Emillie Gagnan) that impacted both oceanography and cave exploration.

Write a $\frac{1}{2}$ page about Jacques Cousteau as if you were using it to introduce him to your class. It should include several of the facts you find most interesting about him and his work in order to pique the curiosity of the listeners.