

Helen Quinn on Doing and Teaching Science

Link: <https://www.amphilsoc.org/museum/exhibitions/great-talks-american-philosophical-society/helen-quinn-doing-and-teaching>

Length: 1:26:17

Date: March 9th, 2020

Description: Dr. Helen Quinn, an esteemed particle physicist and leader in K-12 science education reform, explains the fundamentals of particle physics and some recent developments. She also addresses ongoing changes in scientific education and the connection between science and the humanities.

Guiding Questions:

- What do you think classifies “science” versus “scientific studies”?
- What are some criticisms with current science education?
- What are some problems that go along with making absolute statements about scientific discoveries?
- How does current science and math education impact diversity?
- What are some differences and similarities between science and history?

Great for: Grade 11-12

Necessary Background: An understanding of the basic principles of physics will aid in comprehension of the presentation.

Standards Connections: Explains the development of Next Generation Science Standards

Keywords: Physics, education, science

Notes: More like two topics. First section is discussion of physics. Second is discussion of science curriculum